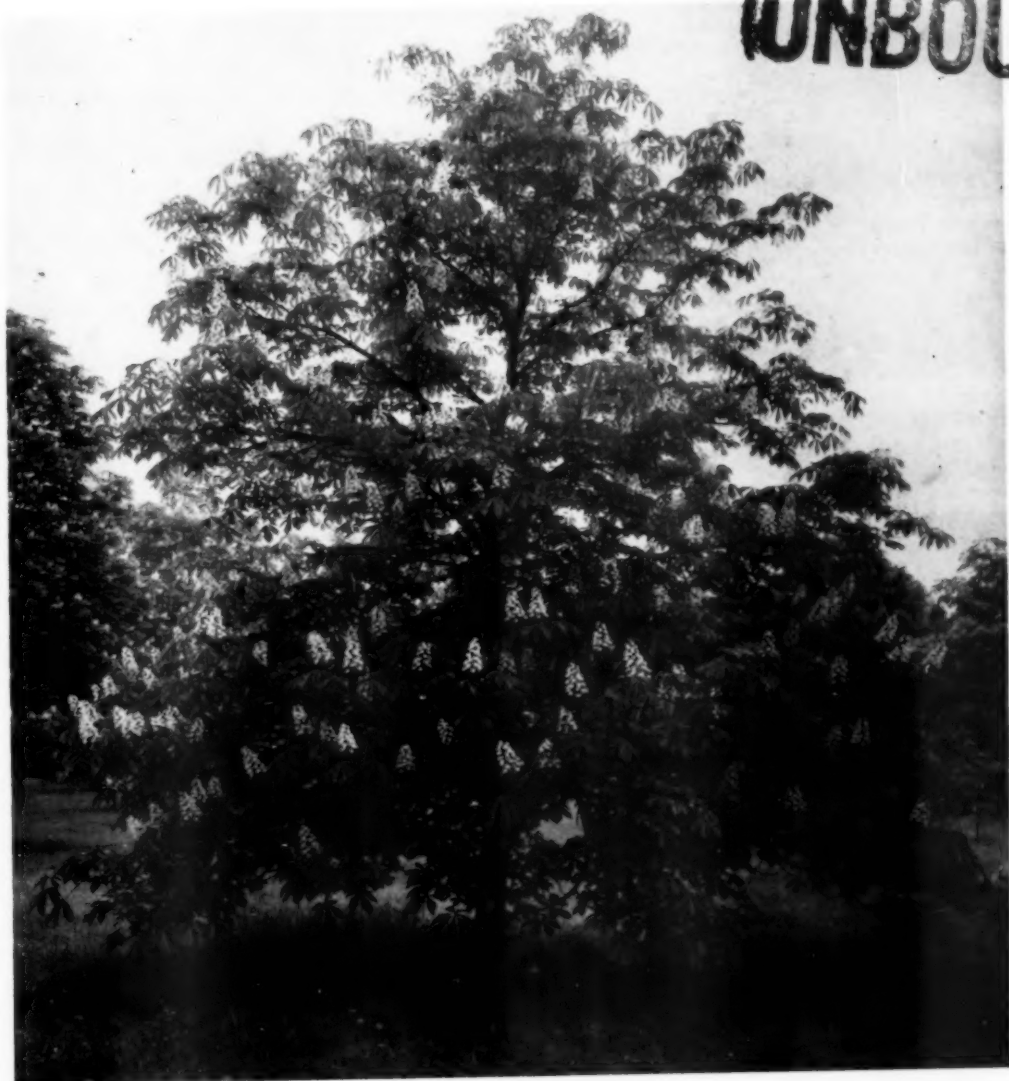


AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

SEPTEMBER 15, 1955

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CII, No. 6

SEPTEMBER 15, 1955

Founded 1904

With which was merged 1939

THE NATIONAL NURSERYMAN

Established 1893



Published on the

first and fifteenth

of each month by the

AMERICAN NURSERYMAN

PUBLISHING COMPANY

343 South Dearborn Street,

Chicago 4, Illinois.

Telephone: WAbash 2-9011



Subscription Price:

\$4.00 per year; outside

United States, \$5.00;

Single Copies, 20c.



Advertising Rates

On Application.

For Closing Dates

See Next Page.



Entered as second-class matter
December 14, 1933, at Chicago,
Ill., under act of March 3, 1879.

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Forms for the October 1 issue will close Friday, September 16.

Forms for the October 15 issue will close Friday, September 30.

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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

Editorial

THE DRY WEATHER

The drought in the midwest has caused water shortages in some areas, leading to regulations as to sprinkling lawns and gardens, with fines imposed on those enthusiastic gardeners who violated the ordinances. Homeowners have naturally been alarmed by the sight of browning lawns and wilting flowers and shrubs.

In response to the demand for advice under these conditions, newspaper garden columns have told about the advantages of mulches, cultivating and other means of retaining moisture in the soil. The experience of the gardeners in the water short areas and the lessons they have learned under these conditions may compensate for some of the current damage in the attention they will develop toward watering another season or to the methods whereby gardeners may conserve the needed moisture for their plants in the future.

RECORD FARM OUTPUT

Nurserymen in rural districts will be pleased to learn that American farmers will produce the largest combined volume of crop and livestock products in history this year, if present favorable prospects continue.

This bountiful output was forecast by the Department of Agriculture recently in the face of rigid federal planting restrictions which had been placed on a number of major crops, designed to keep surpluses from becoming larger. The surpluses are already of record size.

The department said that the prospective volume of crops equals the record harvested in 1948. But the indicated big production of livestock products—beef, pork, milk and poultry products—appears certain to make the total farm output the largest ever recorded.

Generally favorable weather, heavy use of fertilizers and greater use of labor-saving machinery and crop varieties combined to make the crop outlook exceedingly large, despite acreage cutbacks in cotton, wheat, rice, peanuts and tobacco. Much land taken out of these crops

under government controls was shifted to other crops.

CUSTOMERS CHANGE

Not much more than a half century ago, the principal customers of nurserymen were the commercial orchardists and the wealthy owners of private estates. In those days more plants were imported than were produced in the commercial nurseries in this country. American nurserymen were forced to grow their own material by the passage of the plant pest act of 1914 and the imposition of quarantine 37 in 1920. So successful were the nurserymen in growing stock here, that the depression found them with well-stocked nurseries. In the 1930's the only customer seemed to be Uncle Sam, and many trees and shrubs were moved to parks, highways and other public projects. The depression, plus the income tax, removed most of the private estate owners from the lists of nurserymen's customers or curtailed their purchases, and commercial orchardists were for some time a small factor in the market.

But the wartime victory gardens and decrease in travel spurred the interest in plants of all kinds among the general public. For a time that meant the well-to-do owners of handsome residences with substantial grounds. But after the war, the tremendous boom in home building wrought a change. The small owner with the limited yard space, having shorter working hours and a long week-end, became important among nurserymen's customers, not by the size of his individual purchases, but by the numbers in which he was duplicated.

With the change in customers has come a change in the type of nurserymen's operations. The big agency firms of several decades ago, that packed out of Rochester, N. Y., and other nursery centers, have few counterparts today. The landscape architects and landscape contractors of the private estate era have ceased to be or have changed operations to fit the times. Even the landscape nurserymen who succeeded them have, in part, forsaken their calling for the operation of garden stores or nursery salesyards.

Other changes might be enumerated, and the list of illustrations could be continued, but enough has been said, it is hoped, to point out that customers change with the times

and that nurserymen change their ways in order to meet the needs of the era and to serve each class of customers to the best advantage.

CREDITS

Usually when a nurseryman starts in business he makes the majority of his sales for cash. Then he learns that to expand his volume of business and facilitate sales it is desirable to grant credit to customers. Many nurserymen then drift into a sizable credit business without understanding its use or methods.

The granting of credit is a means of increasing or facilitating sales. The case of credit, representing the calculated risk taken in granting it, depends upon the type of business and the profit margin. The nurseryman should probably keep his credit losses down to 1 per cent or less of sales, although in some other industries the margin is much greater.

If the businessman is too lenient in granting credit, he runs the risk of experiencing excessive losses in uncollectible accounts. On the other hand, if he is too strict in granting credit, he may lose sales which would have been collectible and profitable. To steer a successful course between the two extremes is possible, if one pays attention to the percentage of credit loss annually.

More important in the granting of credit, though perhaps receiving less attention, is the collection of accounts. Too many businessmen let past-due accounts ride with little attention for months, even years. At that stage they are generally considered hopeless, even in the hands of a collection attorney, whose commission on successful collections robs any transaction of profit.

An account should have attention regularly and frequently, from the time it is put on the books. The first statement should be followed up by letter, by telephone or in person, patiently, kindly but firmly, with due regularity.

Much has been written about collection methods and can be learned from books. The nurseryman who grants credit should immediately develop his own collection techniques. Without them he is placing a handicap on his credit business that it does not deserve. Credits and collections go hand in hand.

WALLACE NURSERIES, Farmington, Kan., was recently purchased by Mr. and Mrs. C. R. Thomson, of Thomson Nursery, Farmington.



New officers and directors of the Texas Association of Nurserymen: (Front row, left to right) William Collins, executive secretary; L. A. Dean, second vice-president; H. Durwood Thompson, president, and R. C. Aldridge, first vice-president; (back row, left to right) Leon Miller, Judd Germany, Wash Storm, Steve Brady, Joe Tomlin, R. C. Suggs and Gene Howard.

Texans Meet in Rose Capital

By Joan Kilner Mills

The convention of the Texas Association of Nurserymen drew over 450 nurserymen, their wives and children to Tyler, August 21 to 24, where they enjoyed the beauty and hospitality of the nation's rose capital. The well-rounded educational program held something of interest for each nurseryman, whether he was engaged in the wholesale, retail or landscape business, and the well-planned entertainment included events of enjoyment for every member of the family. Decorations were lavish with Tyler roses, with "The Yellow Rose of Texas" the theme. Bouquets of roses were given conventioners as they registered at the headquarters hotels which were the Blackstone and Carlton.

The 4-day meeting culminated in the election of H. Durwood Thompson, landscape architect, Corpus Christi, as president; R. C. Aldridge, Aldridge Nursery, Von Ormy, first vice-president, and L. A. (Slick) Dean, Arp Nursery Co., Tyler, second vice-president. New directors, with 2-year terms, are Judd Germany, Germany's Nursery, Fort Worth; Wash Storm, Storm Nursery, Premont; Joe Tomlin, Tomlin Nursery, Dallas, and Stephen J. Brady, Trauernicht Nursery, Fort Worth. Holdover directors, with one more year to serve, are L. C. House, House's Azalea & Camellia Gardens, Dallas; Ben F. Barron, Odessa Nursery & Tree Surgery, Odessa;

Leon Miller, Co-Operative Rose Growers, Tyler, and R. C. Suggs, Suggs Landscape Co., Houston.

Opening Events

The convention began Sunday afternoon with social events and opening of the trade exhibits. The 30 exhibitors who occupied booths filling over half the American Legion hall, where meetings were held, included 18 nurseries, 11 manufacturers and one trade association. They drew a fine attendance all during the convention and were open to the public Monday afternoon. The large, uniform name signs provided by the

association added to the attractiveness of the exhibition hall. Coffee and cokes were served each morning through the courtesy of Arp Nursery Co., Consolidated Nurseries, Harville Rose Service and L. C. House & Sons, all of Tyler.

Sunday afternoon the Junior TANers had a party at the Blackstone hotel, in the Pine room, which was their headquarters during the convention. Monday they enjoyed a picnic and Tuesday a swimming party at Fun Forest. The nurserymen and their wives were given a get-acquainted party from 5:30 to 7:30 p. m. in the ballroom of the



Miss Maymerle Shirley, 1955 Texas rose festival queen, presenting roses to Vernon Marshall, A. A. N. president, as Gene Howard, president of the Texas Association of Nurserymen, looks on.



Prof. A. F. DeWerth receives Arp award for services to Texas nursery industry from Clark Kidd.

Blackstone hotel, compliments of Joe Zeppa, president of the hotel and local oilman.

The business of the convention began Monday morning with the call to order by President Gene Howard, Howard's Montopolis Nursery, Austin. The invocation was given by Judd Germany, Germany's Nursery, Fort Worth, and a message of welcome was delivered by Zeb J. Spruiell, Tyler city commission chairman. The obituary report was given by Louis Hulme, Fort Worth. President Howard told of the program and speakers to follow, aptly describing the convention as a get-together to help solve problems, to buy and sell and to have a good time.

The report of the executive secretary, William M. Collins, Austin, showed that with the new dues schedule the association is more nearly meeting its budget wholly through dues. He told of the success of the "Plant Texas" program initiated the past year. Over 6,000 "Plant Texas" brochures, "Hello, I'm Tex," have been mailed from the association office in response to requests from individual gardeners and garden clubs.

The nursery trade is held in high regard by other industries, said Mr. Collins. It is the nurserymen who underestimate themselves, not the public or competitive businesses. Nurserymen should change their way of thinking, raise their prestige in their own minds and upgrade their industry, which could result in making the nurserymen the No. 1 Texas industry in their own communities.

A highlight of the convention was the speaker at the luncheon Monday in the Carlton hotel. Dr. Kenneth McFarland, educational consultant and lecturer for General Motors Corp., bore out his advance publicity and proved to be one of the best informed and most eloquent exponents of the whole American philosophy of economic, political,

social and religious freedom, and undoubtedly one of the finest speakers any nurserymen's convention has been privileged to hear. Whether he spoke seriously or humorously, Dr. McFarland did not fail to put across his message, that an individual cannot be personally, happily or permanently successful in his business unless he "puts light in peoples' faces."

A salesman should do or say something to make the customer feel good. It costs no more, and it pays dividends; right then and there the customer is sold again. But to get the benefit or recognition for the action, the salesman should do it in style. A high percentage of the time people do say the right or nice thing, but then do not get recognized for it just because they do not know how to do it with finesse, said Dr. McFarland. What a difference there is between the life insurance salesman who talks of his policy as a cold contract and the one who describes his as "the most beautiful love letter you ever wrote your wife." Or the furniture salesman who guided his customers from an incorrect choice to the proper selection by saying, "We are glad to give the benefit of our years in the furniture business to make sure that the customer is always right."

[Continued on page 84]

Texas Landscape Men Elect

By George Fisher

A meeting of the Texas Landscape Association was held at Tyler during the convention of the Texas Association of Nurserymen. Programs of both groups offered features enjoyed by the landscape men.

The gala social event was a buffet supper held for members and their guests in the East Texas room of the Blackstone hotel, August 21, immediately after the T. A. N. get-together party. This affair took the place of the annual party usually held in connection with the nurserymen's convention.

Guests at the supper were Vernon Marshall, president of the American Association of Nurserymen; John Fraser III, director of A. A. N. region II; C. J. Louden, director of A. A. N. region V; J. B. Baker, A. A. N. past president and now director at large; Gene Howard, president of the T. A. N.; L. A. (Slick) Dean, T. A. N. convention chairman, and S. Clark Kidd, A. A. N. committee chairman. Short talks were given by Robert Baker,

John Fraser and Vernon Marshall. Vernon Marshall was one of the organizers of the National Landscape Nurserymen's Association, as well as a past president.

The annual midyear meeting of the T. L. A. executive committee was held August 23, in connection with a breakfast in the East Texas room, to conduct routine business. Two new members were taken into the association as follows: Roy L. Garner, Van Valkenburgh & Vogel, Landscape Architects, Dallas, and George M. Fisher, Arp Roses, Inc., Tyler.

Election

At the annual business meeting held Tuesday afternoon, officers were elected as follows for two years: President, Leonard M. Riggs, Longview; vice-president, Otto E. Scherz, San Angelo, and secretary-treasurer, George M. Fisher, Tyler. Two new directors elected for a 2-year term are Ray Breedlove, Tyler, and John

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Ten Top Trees Named at Jersey Meet

By Raymond P. Korbobo

While hurricane Connie obligingly took a rest off the Carolina coast, the New Jersey Association of Nurserymen enjoyed perfect weather at Pennington, N. J., where they held another successful summer meeting August 10. Howe Nurseries, Inc., was the host for the day.

About 300 persons attended, the largest group ever recorded for this affair. They came from seven states besides New Jersey. Between registration and the famous filet mignon dinner, personally conducted tours by automobile took the members and guests through the beautifully kept nursery. White lines on paths guided those who chose to walk.

Running concurrently with the nursery tours were demonstrations of digging, balling, burlapping, loading, spraying (for summer transplanting) and wrapping large trees as done by Howe Nurseries, Inc.

A large area of shaded woodland along a stream was cleared weeks before the date in preparation for the large gathering. A more appropriate setting could not have been found for the major event of the day—a panel discussion on "The Ten Top Trees of Tomorrow." The program committee felt that it is high time that some sort of a preferred list of shade trees, both major and minor, be established for the mid-Atlantic area for two good reasons: First, to act as a guide for the homeowner who is looking for good trees, and second, to



Tree selection panel at New Jersey meeting listens to some suggestions from the floor; left to right, Richard Walters, Maplewood shade tree commission, Maplewood, N. J.; William Flemer III, Princeton Nurseries, Princeton, N. J.; Clarence Lewis, Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y., and Albert Flemer, F & F Nurseries, Holmdel, N. J.

enable the grower to arrange his planting operations to meet the demand.

Educational Effort

In the east the tree name most familiar to the amateur is maple. He does not even try to separate one kind from another—the tree is simply a maple.

To illustrate a point in favor of those who think the public can be educated to ask for something better, it was pointed out during the

meeting that just before and after World War I it was a poplar that everyone wanted. Quantities of poplars were grown and sold, too! Therefore, the committee feels certain that over a period of from 10 to 15 years the names of the trees offered by the panel can become common household words. A concerted effort on the part of the nurserymen and the agricultural extension service, by means of radio, TV, newspapers, magazine articles and lectures, should be a force strong enough to inform the consumer what is truly best for his planting needs.

Panel Members

The panel consisted of William Flemer III, Princeton Nurseries, Princeton, N. J.; Richard Walters, of the Maplewood shade tree commission, Maplewood, N. J., and Clarence Lewis, of the Farmingdale Agricultural College, Farmingdale, L. I., N. Y. Albert Flemer, F & F Nurseries, Holmdel, N. J., was the moderator.

Each panel member in turn discussed a different phase of the shade tree situation. Mr. Flemer looked at the problem from the shade tree angle; Mr. Lewis looked at it from the home landscape angle, and Mr. Walters viewed it from the community street tree side.

Originally, it was planned to have a list of but 10 trees that included both major and minor shade trees. Finally, however, it was decided to



Prominent nurserymen attending the New Jersey Nurserymen's Association meeting, left to right, Thomas Lenoir, Palisades interstate park commission, Bear Mountain, N. Y.; William Howe, Jr., Howe Nurseries, Inc., Pennington, N. J.; Valteau Curtis, Calicoon, N. Y.; William Flemer III, Princeton Nurseries, Princeton, N. J.; Albert Flemer, F & F Nurseries, Holmdel, N. J.; Oliver A. Deakin, New Jersey state highway department, Plainfield, N. J., and John Siebenthaler, Siebenthaler Nurseries, Dayton, O.

have two lists to be of 10 trees each.

The panel members took into account all the good and bad points, including such items as maintenance costs, root systems, leaf patterns, branching habits, ultimate size, strength in wind and ice storms, resistance to drought, insects and diseases, compatibility with utility wires, etc.

Selections

After all three men presented their lists, the following trees were presented as the final choices:

Major Trees

(50 to 60 feet and up)

1. Honey locust (*Gleditsia triacanthos inermis*)*
2. Pin oak (*Quercus palustris*)
3. Norway maple (*Acer platanoides*)*
4. Red maple (*Acer rubrum*)*
5. Oriental plane (*Platanus orientalis*)
6. Sugar maple (*Acer saccharum*)
7. Red oak (*Quercus borealis maxima*)
8. Japanese pagoda tree (*Sophora japonica*)
9. Scarlet oak (*Quercus coccinea*)
10. Little-leaved linden (*Tilia cordata*)

Minor Trees

(20 to 50 feet)

1. Columnar Norway maple (*Acer platanoides columnare*)
2. Hedge maple (*Acer campestre*)
3. Kwanzan Japanese flowering cherry (*Prunus Kwanzan*)
4. European mountain ash (*Sorbus aucuparia*)
5. American hornbeam (*Carpinus caroliniana*)
6. American hophornbeam (*Ostrya virginiana*)
7. White birch (*Betula pendula laciniata*)
8. Golden-rain tree (*Koelreuteria paniculata*)
9. Hopa crab apple (*Malus Hopa*)
10. Kobus magnolia (*Magnolia kobus*)

*Selected forms.

Discussion

During the discussion it was suggested that one maple be replaced by the willow oak (*Quercus phellos*), to avoid having three forms of one genus in such a short list. Steve Batchelder, plant pathologist at Rutgers University, pointed out that as far as immunity to disease and insect attacks is concerned, nothing beats the ginkgo. He pointed out that older specimens as seen in the Orient are beautiful beyond description.

Someone else said "If we're out to help the homeowners, let's not even mention Norway maple." This brought lowered brows from a few of the bigger growers. (Ed. note—the Norway maple was included only because of its ability to grow under difficult conditions.)

The American Holly Society wrote a letter in advance of the meeting asking that the American holly (*Ilex*

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Howe Nurseries' Growth

When William P. Howe moved to Pennington, N. J., six miles north of Trenton, the state capital, 45 years ago, he purchased several thousand small shade trees with which to line the streets of a real estate development he was then opening. Much to Mr. Howe's surprise, when his project was finished for the year, he still had a large number of trees left. He did the only natural thing a lover of plants would do; he planted the stock in rows on part of his extensive land holdings. From that almost chance beginning, Mr. Howe developed what is now the Howe Nurseries.

Mr. Howe, who will be 80 years old next December, still takes an active part in the extensive operations of Howe Nurseries, of which he is president. In addition to his

cold storage operations in the south, with establishments in several cities, Mr. Howe's grandfather had started the business by importing natural ice from the north and later installing his own ice-making equipment. When a firm in South Africa requested the Howes to set up an ice-manufacturing establishment in Johannesburg, William P. Howe was sent to supervise the job.

While Mr. Howe was in South Africa, he contracted malaria and after his return to Nashville, Tenn., found that the climate aggravated his condition. The family physician advised him to move to a cooler climate, so Mr. Howe and his family went to East Orange. For a year he traveled about New Jersey and New York looking for a community where he could settle and start a business of his own. He found the answer to his quest at Pennington, where he purchased two farms of more than 200 acres and proceeded to develop parts of them for his real estate project.

Even while his nursery business was gathering momentum in those early years, there was no sudden ending to his real estate operations. In fact, some of the land was sold for development only in recent years. Whenever new streets are opened in these tracts, Howe Nurseries continue a tradition of planting sidewalk trees free of charge.

From Wholesale to Retail

At the start, Mr. Howe specialized largely in evergreens and conducted a wholesale business, selling to other nurseries in northern New Jersey and metropolitan New York. World War I brought a temporary halt to his operations when his land was used largely for food production, but by 1919 Mr. Howe was back in business on an even greater scale. In 1921 he purchased an adjoining 220-acre farm, and from then on the nursery expanded tremendously.

William P. Howe, Jr., came into the business in June, 1923, after his graduation from Pennington preparatory school, and was placed in charge of the propagating department. Three months earlier Clarence Drake, now the nursery superintendent, went to work for the Howes.

The nursery had reached peak production at the time of the stock market crash in 1929, and business continued good until the spring of

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William P. Howe, Jr.

son William, Jr., vice-president and general manager, he has a second son, Eugene W. Howe, Madison, N. J., treasurer of the firm. Cassel Ruhlman, Jr., is secretary. Three daughters serve as directors of the firm; they are Mrs. Martha Howe Peterson, Mrs. Inez Howe Howell and Mrs. Edna Howe Kuser.

Family Moves from Tennessee

The Pennington enterprise has come a long way since 1910 when Mr. Howe began what he thought was to be a career in real estate. The year before, he had moved his family to East Orange, N. J., from his previous home at Nashville, Tenn., where he had been in the ice manufacturing business with his father. The Howe family years before had developed one of the largest ice and

Southerners Convene at Asheville

By E. M. Quillen

Asheville, N. C., where the Southern Nurserymen's Association held its annual meeting August 13 to 15, at the George Vanderbilt hotel, proved to be ideal for a summer convention. For the first evening's social event, about 300 nurserymen and their friends enjoyed a sumptuous buffet dinner as guests of the North Carolina members.

Election of officers, which took place at the final business session, resulted in the naming of George Sawada, Overlook Gardens, Inc., Mobile, Ala., as president. A. E. Aichele, Charleston, S. C., was elected vice-president. The directors are Robert Boyd, McMinnville, Tenn.; Dan Reynolds, Winston-Salem, N. C.; Hubert Nicholson, Decherd, Tenn., and Steve Verhalen, Scottsville, Tex. Immediately after the election of officers, L. B. Scott was employed as executive secretary.

Monday morning the convention was called to order by President Hoskins Shadow, Winchester, Tenn. The invocation was offered by the Rev. Mack Jenkins, Asheville. Mayor E. W. Eller gave the welcome address, to which a response was made by R. A. Fowler, Raleigh, N. C., president of the North Carolina Nurserymen's Association.

President Shadow summarized the accomplishments during his administration and offered recommendations toward future progress.

George Sawada offered a proposal to employ a paid executive secretary and increase dues from \$10 to \$20.

J. P. Ditchman, horticultural application engineer of the General Electric large lamp department, Cleveland, O., spoke on the subject "Influence of Light on Plant Life."



Left to right, Hoskins Shadow, Shadow Nursery Co., Winchester, Tenn., retiring president, Southern Nurserymen's Association; Dr. Richard P. White, executive vice-president, American Association of Nurserymen, Washington, D. C., and George Sawada, Overlook Nurseries, Inc., Mobile, Ala., newly elected president of the S. N. A., at the association's annual meeting at Asheville, N. C., last month.

He illustrated how artificial light could be used to supplement sunlight in growing plants and in the poultry industry.

Dave Bosley, of the extension division of North Carolina State College, discussed "Mist Propagation," including equipment, making of cuttings, rooting and care after rooting. While mist propagation is new, it is accepted as a revolutionary procedure in rooting plants, speeding up rooting and reducing rooting cost and the investment in equipment. Mist propagation makes possible rooting of many plants that cannot be economically propagated by old methods.

Visit Biltmore House

Monday afternoon, five buses and a number of private cars carried the group to the famous Biltmore estate, consisting of 12,000 acres, much of which is beautifully landscaped, using native plant materials extensively, as well as a wide assortment of plants from other parts of the world. The magnificent mansion, built during the gay 90's, now serves as a museum for a collection of antique furniture from many parts of the world. The nurserymen and their families greatly enjoyed the tour.

M. Luther Harkey served as toastmaster at the annual banquet. Later, southern square dancing at-

tracted young and old until a late hour.

Tuesday morning's session was opened with a report by Dr. Richard P. White, executive vice-president of the American Association of Nurserymen, on national affairs, including the proposed federal highway program, which will require large quantities of nursery stock. Dr. White was of the opinion that federal fair trade rules would be set up soon.

During the business session prior to the election of officers, association dues were increased from \$10 to \$20 and it was voted to employ an executive secretary. The treasurer's report showed a satisfactory balance.

A report for the legislative committee called attention to attempts by various state governments to classify nurseries as industrial and deny them privileges enjoyed by agriculture. Some states have already enacted legislation clarifying nurserymen's status as agricultural, while similar legislation is under consideration in other states.

Nashville in 1956

After the election of officers as already reported, Nashville, Tenn., was selected as the place for the 1956 convention. Invitations were extended by Charleston, S. C., and Roanoke, Va., for the 1957 convention.

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Flood Damage in the East

Two days after the newspapers reported that hurricane Diane was a weak and puny thing and had died out over Virginia and Michigan, the tail of the storm came northeast again, dumping water into eastern Pennsylvania, western Connecticut and then straight east across Massachusetts. All the northeast received heavy rains, but the areas named had as much as 14 inches in 24 hours, plus several inches the previous day. This all followed a solid soaking of several inches as Connie blew itself out several days before—11 days to be exact.

Wednesday, August 17, the day of the New England Nurserymen's Association meeting at Rocky Hill, Conn., showers, which did not materialize, were predicted. Thursday the same prediction was given and moderate to heavy showers, several inches in some localities, fell in the early morning. Thursday night papers predicted more of the same, but gave no intimation of what really happened. At Manchester, Conn., in the middle of the state, heavy showers started around midnight. Plenty of people the next morning still thought of it as just another heavy rain until they turned on their radios.

The storm struck earlier farther west and then worked north and east across Massachusetts, spilling fantastic quantities of water. The greatest part of the water came in the space of two or three hours just before or just after midnight. As this report is written, one week after the storm, there is not a single road open across the western half of Connecticut and none north and south, without long detours. Radio has just announced that Red Cross reports more than 14,000 families in Connecticut are washed out to a greater or less degree, 4,000 of them with nothing saved.

Nurseries in general were not seriously affected. In most hurricanes everyone gets hurt some, but in this deluge of water the nurseries either escaped almost without damage or were devastated.

Of the nurseries below Danbury—Woodcock Nurseries, Inc., Ridgefield; Brack's Nursery, Brookfield, and others report practically no damage except from erosion, and these nurseries were just south of where some of the heaviest damage was done.

George Harris, Princeton Nurseries, Princeton, N. J., states damage was limited to tipped trees because of

water-soaked ground. The affected trees will have to be straightened and staked. This nursery has practiced contour farming for years, and it paid off in the prevention of serious erosion.

Losses must have been tragic in some of the smaller nurseries in Litchfield county, but reports have not yet been obtained.

The five nurseries at Cromwell and Rocky Hill, Conn., state that their damage is negligible. Millane Nurseries & Tree Experts had some washing; Leghorn's Evergreen Nurseries had a little standing water. Blueflint Nurseries and Gardner's Nurseries had some erosion, and A. N. Pierson, Inc., had one field under water for awhile. When these nurseries report little damage, the statement is relative, because they know the damage suffered by others.

Bristol Nursery, Inc., Bristol, in an area where roads were washed out all around, cellars flooded, etc., was

hardly touched, except for a new gully here and there.

Adams Office Inundated

Adams Nursery, Westfield, Mass., had a 10-foot wall of water flow across the nursery on the main road, inundating the office nearly to the first-floor ceiling and nearly to the ridge of the greenhouses. Fortunately, in recent years, all the best plantings of stock had been put on high ground, well above the flood. Water ran off in a few hours, so that stock did not stand in it for days as in previous floodings that backed up and formed still water. What happened at Adams is typical of what happened in many cases in Connecticut. At 10 p.m., water was rising fast, but at midnight water had dropped a foot. Then dams started giving way, and water rose so fast there was no chance to move anything and it was a scramble to get people out. Before the flood stopped rising, it was 57 inches higher than any previously known high water. Cleaning up will be a long and expensive job.

One surprising and fortunate [Continued on page 30]

Maryland Outing at Towson

By George S. Langford

At a period when the elements were in an unusual state of disturbance, the Maryland Nurserymen's Association held its summer meeting. Sandwiched between two famous east-coast hurricanes, Connie and Diane, approximately 150 nurserymen and their friends gathered at Towson Nurseries, Inc., Towson, Md., Wednesday, August 17. Enough sunshine intervened between rains to permit those in attendance to examine the nursery and enjoy good fellowship and friendly discussions under shelter.

Towson Nurseries, with a superb setting and inspiring views, provided an ideal location for the meeting. This background setting was enhanced and given gaiety by a friendly greeting from the firm's president, C. W. Price, and the welcome from his associates. Officials and employees worked as a team, wearing green baseball caps.

Towson's 500 acres of well-kept nursery have an excellent road system, enabling the group to see an unusually large variety of fine nursery stock varying in size from lining-out stock to large specimen plants. On arriving, the visiting nurserymen enjoyed refreshments, after which they spent the morning see-

ing the greenhouses, hotbeds, cold-frames and other facilities used in propagation work. A tour of the lower nurseries followed.

Immediately after the morning tour, the group enjoyed a picnic luncheon, served cafeteria style. Tables especially decorated for the occasion and sheltered by open sheds provided pleasant surroundings for the lunch.

Meeting

After the picnic, President Edward Stock greeted the nurserymen and presented the host, C. W. Price. Mr. Price in turn introduced the other officers of the firm and their associates, whose work he stated made the meeting possible. An introduction of guests came next. The only business during the meeting consisted of brief reports from several committees.

Gilbert Gude, Rockville, chairman of the association's water conservation committee and a member of the Maryland legislature, reported on his work with the farm bureau in getting resolutions through the state legislature for the appointment of a committee to study Maryland water resources. Mr. Gude introduced Dr.

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Tips for Better Landscapes

School Landscaping: Part II

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

The simplest suggestion may sometimes clinch the landscape job, even though the idea may have nothing to do with landscaping. This was illustrated on a recent job where the person bidding realized that there would be considerable traffic into and out of the building during the evening hours. The steps could be a problem to many, even though they were adequately lighted. The simple idea was this—that a white strip be painted on each step edge so that one could readily see the margin when descending. There have been no accidents there—maybe there would not have been, even without the white edges. Anyway, this bit of initiative influenced the right people.

Too often the bulldozer operator leads a merry life and rides herd on the trees that may be in the line of fire, whether it is a school or home that is to be built and planted. Of course, the machine operator has had his instructions. Illustration A shows an island of trees left near a grade school, because somebody had enough foresight to preserve them before they were destroyed. These trees are primarily oaks; by careful thinning, pruning and fertilizing they can become respectable representations. Desirable trees or groups of trees are often ignored, or the landscape man is not called in early enough to save trees that have been growing for 40 years and more. It is a shame to see trees disappear



Illustration A—Existing trees can often be left to give a new school a more mature appearance.

when they could well make a school better and more maturely planted.

In illustration A, a bareness of the school in its surroundings has been prevented by a little conservation work. It takes a long time for trees to reach a height of 20 feet or more, and considerable money to purchase trees of even smaller size.

I discussed briefly the undesirability of narrow grass areas in a previous article and intimated that they posed a maintenance problem. Illustration B shows a fence that protects the students who use a walk bordering the roadway. Between the fence and the road is a narrow strip of grass that is in a state of neglect and will probably continue to appear that way. The illustration does not show

the situation completely, because this fence, walk, road and turf strip extend for about 200 feet to the street.

The fence shown is necessary for the protection of those who use the walk, because automobiles do not always stay on the road. The expense of this fence is more than worth the cost of the injury to even one boy or girl. The superintendent of this school said that this grass strip was one of his worst maintenance problems and felt that there should have been a narrower strip of black top or concrete where the grass is now located. He intimated that concrete would certainly not look so good, but it could save a continuous headache. The fence might have been put closer to the road, though it is not usually



Illustration B—Narrow strips of turf shown above offer maintenance problems.



Illustration C—People walk in a direct line to their point of destination, turf or no turf.

advisable to have a fence flush or almost flush with the curb of a road.

The narrow grass panel in illustration B also raises the point that grass panels in parking fields can prove objectionable. The grass is nice to look at, as one high school principal put it, but it presents a problem. When a grassed area is placed between the parking field and the building there is just one thing that results—note illustration C. Persons take the shortest route between two points, which is, of course, a straight line. If you do not believe it, just check on any public area that involves much traffic over grass. Turf can be protected under such conditions by incorporating trees or shrubs in the panels, but the shrubs must be tall enough so persons will not climb or jump over or crawl through them. At one public area near a well-known bathing beach a hedge of cockspur hawthorn was placed inside a screening of Japanese black pine to keep people out. Do you suppose this plan stopped traffic? It certainly did not! You may think children are the worst offenders, but this is not true; adults are equally bad, sometimes worse.

Screen for Noise

It is claimed that trees are instrumental in screening out noise, and this has been proved on various landscape jobs. Screening noise from schools certainly should be considered. At least, trees give the psychological effect of reducing noise. Most new schools are such a distance from roads and streets that noise is not a factor, but the buildings cannot be without trees, noise or no noise.

A superintendent of schools remarked recently that he wished almost all plants had thorns, because when they are so armed they tend to keep people on the walks. This is an

important consideration where pedestrian traffic is a problem. If people are not aware of the fact that particular plants have spines or thorns, they soon find out. A park superintendent intimated that all shrubs and trees should have thorns, as far as his job was concerned!

Arbor day, that used to be such an important day in the life of a school child, dwindled for a few years, but is again coming into its own, and rightly should. Often, however, nobody is sure where to plant the sugar maple, pin oak or whatever tree may be involved. Some school principals realize that they are getting a landscape arrangement that begins to look like organized confusion; so nurserymen and landscape men are being consulted by schools as to what trees to use and where to plant them. School authorities realize, too, that no one should operate without a plan.

Flagpole Area

The flagpole, which must be a part of every school property, is often located with a hedge around it and a nice little turf area that makes the spot an isolated garden. Illustration D shows a simple arrangement whereby bricks are used, since bricks are included in the building itself. Janitors are often highly expressive about the individual who designed the flagpole area. Oftentimes the area, with any shrubbery around it, is wet, and if the grass has not been recently mowed, the worst in one's vocabulary may be released. A firm, simple area that can be easily reached is best for most flagpoles—and janitors.

Another thought for schools that is worth thinking about is an outdoor classroom. It has been conceived of in a few places, particularly where there are many art classes in

the curriculum and the climate is conducive to the project. Such an area is an interesting one to develop with the proper placement of trees for shade, screening where necessary and any intimate plantings that are important in the landscaping of such a classroom. Outdoor classrooms appeal to students and teachers.

It may be the landscape man's responsibility to suggest that the school must have control of its grounds after school hours. Where playgrounds are involved, it is necessary to prohibit children from using equipment that could cause an injury. Restricting the use of such equipment may involve considerable fencing or planting of hawthorn hedges, but I believe hedging is not adequate.

Tree Planting

I can remember schools that were planted so that a Pfitzer juniper was under each window and a pyramidal arborvitae against each brick surface between the window areas. This may be still followed, but I hope not. The planting in illustration E is simple and will do a better job than it appears, because the planting of yews is new and has not had time to mature. When the plants do mature and are coupled with Moraine locusts that do not show except in shadows, the planting aspect will be pleasing. It is possible, of course, to add a vine here and there, as long as the janitor or groundman restrains it from entering the classroom. Trees do the job with large buildings. There is no finished planting without them, even if they are wild cherries.

As has been mentioned before, trees should rarely be planted evenly spaced or in straight lines. Group a few, then maybe add a single tree

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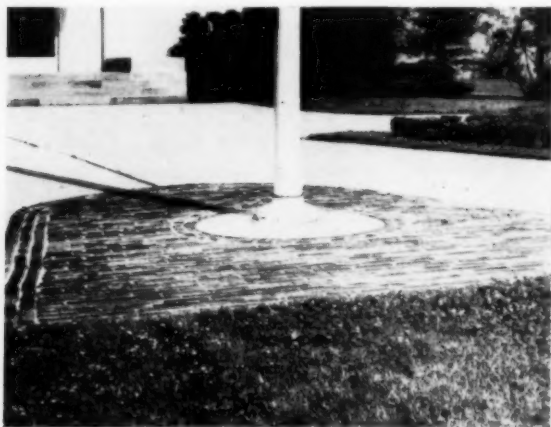


Illustration D—Flagpole areas should have firm surfaces since they are used in all kinds of weather.

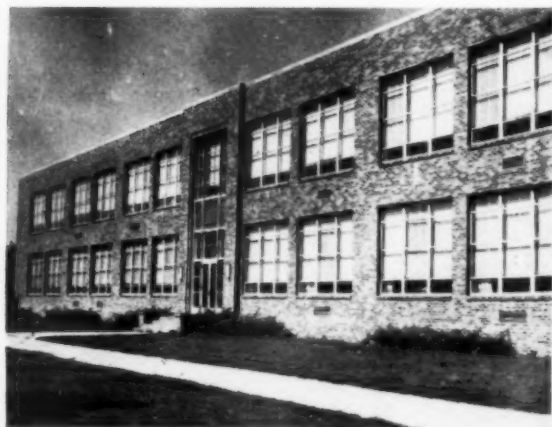


Illustration E—School plantings should be simple, with no trees crowding the windows.

Air Tours Featured at New England Meeting

By Erwin W. Whitham



Awaiting take-off for view of host nurseries at the New England Nurserymen's Association summer meeting, left to right, Charles Godin, president, N. E. N. A.; Marshall Gardner, Gardner's Nurseries, Rocky Hill, and George Tuoti, president of Connecticut Nurserymen's Association.

Excellent cooperation all the way around, from individuals, firms and groups concerned, is credited with being the basis for the success of the summer meeting of the New England Nurserymen's Association in the Rocky Hill-Cromwell, Conn., area August 17. Five nursery firms joined forces to make the event one to be long remembered. These hosts were Blue Flint Nurseries and Gardner's Nurseries, Rocky Hill, and Leghorn's Evergreen Nurseries, Millane Nurseries & Tree Expert Co. and A. N. Pierson, Inc., all of Cromwell.

Gardner's Nurseries were headquarters. Ken Gustafson, of Gardner's, planned the details with the executive committee of the N. E. N. A. and, with assistants from the other nurseries, had everything in readiness when the guests started to arrive. Seven members of the executive committee of the New England group were on hand to help the host nurseries greet the visitors and make them welcome.

At a short meeting of the executive committee, the only business session of the day, 13 new members were elected to membership in the association.

Air Tours

The custom of recent years was continued in making the event a big family party, with freedom of choice in what they wished to do left to the members and guests. The opportunity to view the nursery stock growing in the area was one of the features of the program, with times and methods left to the selection of

the visitors. Many viewed the nurseries from the air; a helicopter took off with its first load at 10:30 a. m. and had another load waiting every time it returned from a trip. Buses left at regular intervals for a tour, and cars were available at individual nurseries for those who wished to see specific plantings.

Refreshments were provided at Gardner's for visitors waiting to make the tours. New England cheddar cheese, with a choice of beverages, was the popular selection. At 1 p. m. a smorgasbord dinner was provided, cooked and served in good Swedish fashion, with ample supplies of everything. Almost 500 persons were served.

Registrations Heavy

Anthony Williams, Cranston, secretary of the Rhode Island Nurserymen's Association; George Fellows, Auburn, secretary of the Massachusetts Nurserymen's Association, and Arthur Bird, Bristol, secretary of the Connecticut Nurserymen's Association, did a splendid job of publicizing the event to their members, with the result that there were 400 paid reservations the day before the meeting and a total of 500 registrations.

More than 150 individual firms were represented in the attendance, with visitors from all the New England states. Farm editors in the large Hartford, Conn., daily newspapers gave considerable publicity to the meeting.

Among the attendants were three past presidents of the American Association of Nurserymen — Lester

Lovett, Little Silver, N. J.; Frank LaBar, Stroudsburg, Pa., and Peter Cascio, West Hartford, Conn. Val-leau C. Curtis, Callicoon, N. Y., representative for region I on the A. A. N. executive committee, was another visitor.

The heads of all four New England nurserymen's associations were on hand for the day. These were Charles Godin, Westfield, Mass., of the N. E. N. A.; Harold Atwater, Agawam, president of the Massachusetts group; Case Hoogendoorn, Newport, president of the Rhode Island association, and George Tuoti, Ridgefield, president of the Connecticut group.

Well represented, also, were the plant sciences department of the University of Connecticut, the extension division of the state university, the Connecticut agricultural experiment station and the Hartford county farm bureau.

NEW YORK SHOW IN '56

Directors of the International flower show at New York city, who had previously announced that it seemed unlikely that a show would be held in 1956, because of the delay in the completion of the new New York Coliseum, now have issued a statement that the event will be held next year. The show is being scheduled for March and will be staged in the south building of the old John Wanamaker department store, Broadway at Eighth street. The Coliseum is expected to be ready for the 1957 exhibition.



Ohio Nurserymen Enjoy Chicken Dinner at Siebenthaler's Garden Center

Ohioans Take Bus Tours

By Jack Siebenthaler

The summer meeting of the Ohio Nurserymen's Association was held August 17 to 19 at Dayton, with total registration in excess of 225. The family-type meeting was considered highly successful.

Wednesday morning was devoted to registration at the Van Cleve hotel, followed by a bus trip early

Wednesday afternoon to Spring Hill Nurseries, Tipp City, O., with Tom, Howard and James Kyle acting as hosts. The tour covered much of the 500 acres at the establishment, including about 200 acres devoted exclusively to nursery stock production.

After a tour of the well-maintained

nursery, refreshments were served and the buses returned to Dayton in time for an excellent buffet dinner at the Van Cleve hotel. This was followed by dancing in the air-conditioned ballroom.

Thursday morning, four large buses were chartered for a tour of the air force museum at Wright Patterson air force base at Dayton. This trip proved to be of particular interest to the children, most of whom for the first time sat in various aircraft and worked the controls. The exhibits covered a wide range of historical and technical background.

Returning to the hotel, the group met at Siebenthaler's Moraine Nursery for a picnic lunch, followed by pony rides for the children, volleyball, softball and horseshoes. A conducted tour, via tractor-drawn wagons, provided ample opportunity for all those interested to view some 220 acres of nursery stock being grown at Siebenthaler's.

Thursday evening, refreshments and a fried chicken dinner were served at Siebenthaler's garden center to the accompaniment of a German band. Plenty of chicken was available for all. Dancing in the center patio was continued until late hours to the music of Carl Taylor's orchestra.

Friday morning, golfing and swimming privileges at Miami Valley Golf Club were extended to the association members, and an excellent roast beef dinner was served at noon.

The meeting officially adjourned at noon on Friday, and many of the group visited other nurseries in the Miami valley area on the way home.



Officers and executive committee of the Ohio Nurserymen's Association attending summer outing: (standing, left to right) William Cole, Painesville; James Siebenthaler, Dayton, vice-president; Laddie Mitiska, Amherst; George Gens, Norwalk; Roger Aukeman, South Vienna, secretary; Howard Kyle, Tipp City, president; Harley Bratton, Columbus, and David Metzger, Youngstown; (kneeling) Zophar Warner, Willoughby.

Ethics Discussed at Shade Tree Conference

By Noel Wysong

Convening on the west coast for the first time, the National Shade Tree Conference held its 31st annual meeting August 2 to 5, at Santa Barbara, Calif. A report of the election of officers and a resume of activities appeared in the September 1 issue of the American Nurseryman.

President Carl Fenner, Lansing, Mich., launched opening-day activities by introducing the Rev. Berkeley B. Blake, who delivered the invocation. Reverend Blake, besides conducting his ministerial duties, acts as chairman of the board of park commissioners of Santa Barbara.

Mayor's Welcome

The Hon. John T. Richard, mayor of Santa Barbara, extended a warm welcome to the delegates, after which he reviewed the early history of his city. He concluded by extending an invitation to the audience to remain in Santa Barbara for the observance of "Old Spanish Days," an annual fiesta.

Newton B. Drury, chief of the state division of beaches and parks, spoke in similar vein. It is an honor, but also a responsibility, he said, to invite anyone to California to see and enjoy the natural scenic beauty of the state, its cities, parks, beaches and waterways. Those areas set aside specifically for recreational use, he emphasized, must be maintained properly or their beauty will be lost. California is growing rapidly in population, Mr. Drury said; it is predicted that, by 1960, the state will have a population of 16,000,000 persons. As more and more people move to and make their homes in California, problems of daily living are certain to increase; problems of water supply, housing, traffic, pro-

viding adequate school facilities and many others must be solved.

Parks Maintained

Increasing population is bringing prosperity to California, Mr. Drury stated, but he warned, "Material prosperity is rubbing the bloom off the native landscape." In addition to such world-famous areas as Yosemite national park, Sequoia national park, Muir Woods national monument and many others, California also contains 137 state parks that are outstanding in beauty because of their beaches, lakes, mountains and forests. "Such areas are maintained," Mr. Drury said, "so people can find relief from mundane affairs of daily life; so they can find true recreation." California is trying to maintain such areas so that people will always have them, he said, and added, "Trees are the core of such areas." Mentioning the General Sherman tree, which is 36½ feet in diameter at its base and is known as the earth's oldest, largest living thing, located in Sequoia national park; the Wawona tree, through which an automobile road passes in Yosemite national park; the coast redwoods, which will be preserved for all time, and other famous individual trees and tree species which exist in California, Mr. Drury asserted, "Such heritages of Californians are not just ours; they belong to all the people of the United States."

In his concluding remarks, Mr. Drury referred directly to the objectives and principles of the National Shade Tree Conference and said, "We need more of the sort of appreciation of trees that is represented here—we bid you welcome; for the

crowning glory of California is its trees."

The first formal paper on the educational program was presented by Howard H. Engelbrecht, climatologist of the United States weather bureau, San Francisco, Calif., on the subject "Climatology and Ecology of the Pacific Coast." In this area, he stated in his opening remarks, there is great variation in climate and, correspondingly, in vegetation. The controlling factors of climate and vegetation in the area, he said, are mountains, land and water masses which act as barriers, ocean currents and the prevailing winds. Along the coast, the climate is generally moderate, moist and equable; inland, the climate is colder in winter and warmer in summer.

California's Climate

Emphasizing that many variable conditions exist in the Pacific coast area, the speaker cited the following examples: Annual precipitation varies from about 146 inches in sections of the northwest coast to less than two inches in Death valley; snowfall may amount to 37 feet or more each year in some sections, while in others there is no snowfall at all; the elevation of some parts of the area is 12,000 feet or more above sea level, while in Death valley the elevation at its lowest point is 280 feet below sea level. "Only 86 miles from Death valley is Mount Whitney, with an elevation of 14,495 feet," he added.

Extremes of temperature, Mr. Engelbrecht said, range from 45 degrees Fahrenheit below zero to 118 degrees above, and in Death valley it may rise to 130 degrees above

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H. N. Engledow, left, Mid-Western Tree Experts, Indianapolis, Ind., past president, congratulates H. C. Wilson, Wilson Tree Co., Shelby, N. C., upon his election as president of the National Arborist Association for the coming year.

Education and Publicity Topics At New York State Gathering

By Marie Enberg

Over 150 nurserymen and guests registered for the summer gathering of the New York State Nurserymen's Association in Westchester county, August 10 and 11. This being chiefly a get-together meeting, there was no general membership business. However, Tuesday, August 9, the board of directors held a dinner meeting at the Hotel Roger Smith, White Plains, which was devoted to association business and reports.

Charles Mouquin, Glen Head, president of the New York State Nurserymen's Association, presided. A total of 24 directors and guests attended the dinner and discussions. Henry B. Little, director of the plant industry bureau for the state of New York, and his assistant, William Ozart, were present. Dr. Kenneth Post, recently appointed head of the department of horticulture at Cornell University, Ithaca, took this opportunity to become better acquainted with nurserymen, their industry and their problems.

Bernard B. Stangler, Williamsville, gave secretarial and financial reports. George Schaffer, Stuart & Co., reported on quarantine hearings by the United States Department of Agriculture and transportation rate hearings. Mr. Schaffer will represent the state association at the September hearing.

The project "Plant New York" was reported on by Valteau Curtis, Callicoon, who told of some of the delays met with. He stated emphatically that there are plans to progress with this program.

Publicity

Peter Costich, chairman of the publicity committee, reported on what had been done in connection with the Long Island Nurserymen's Association and asked that if anyone in the New York association wished releases sent to New York state papers, he should send the material to him at Hicks Nurseries, Old Westbury, L. I., and he would see that it reached the newspapers. Mr. Costich told of the Glen Head, L. I., Rotary Club's planting 150 crab apple trees. Now the local garden club is trying to start a movement for each homeowner to plant a crab apple.

Mr. Costich stated that he would be glad to supply, upon request, the following information to the New

York State Nurserymen's Association members: A list of nearby papers and garden editors, a list of types of trees to be planted under or alongside lighting poles and information on youth group projects in connection with the nursery industry.

Howard C. Taylor, a director of the New York Horticultural Society, announced that there will be a flower show in New York city in March, 1956. This event will be held in Wanamaker's old store, and anyone desiring space should write to Richard Farnham, New York Horticultural Society, 157 West Fifty-

NEW YORK VICE-PRESIDENT



Louis Weinstock, newly elected vice-president of the New York State Nurserymen's Association, was born in Canada, in 1899. At an early age he went to San Francisco, Calif., later serving with the United States Army in World War I. In 1921 he went east and entered the garage business, where he continued until 1944. His marriage in 1942 brought him into association with the nursery business, which he entered two years later, taking over the management of Poundridge Nurseries, Inc., Pound Ridge, N. Y., of which he is now secretary-treasurer.

Mr. Weinstock served the Eastern New York Nurserymen's Association two years as president. Prior to his election to the vice-presidency, he had been on the board of directors of the New York State Nurserymen's Association for four years. In 1954 and 1955 he was a delegate to the conventions of the American Association of Nurserymen.

A resident of the town of Pound Ridge, N. Y., Mr. Weinstock takes an active part in local civic affairs.

eighth street, New York 19, N. Y.

Dr. A. M. S. Pridham, of Cornell University, spoke briefly on the state fair and said that Charles Cares, Cornell University, is in charge of the exhibit at the fair.

Clarence Vanderbrook, chairman of the education committee, suggested several ways that the association might help with the program. He felt the committee should be composed of at least one representative from each of the three regional sections of the state association. He also suggested a post card questionnaire be used to determine the types of research which nurserymen most desire to be conducted at Cornell. He will seek closer cooperation with the university at the December meetings at Ithaca.

Howard Taylor, long active in furthering coordination of educational programs of state institutions and needs of nurserymen, asserted that perhaps it would be advisable to return to the plan of holding the annual state summer meeting at Cornell. He also urged closer contact with Alfred University, Alfred, and the school at Farmingdale, L. I.

Valteau Curtis, too, endorsed holding one meeting a year at Cornell University. Discussion of the matter followed, but decision will be made at a later date as to whether the annual meeting at Ithaca will be in the summer or in December.

Dr. Kenneth Post endorsed appointment of an active educational committee of nurserymen to meet with him several times a year to work on the needs of the nurserymen.

Henry B. Little spoke on the activity of the plant industry bureau in attempting to curb introduction and spread of west coast insects and urged the cooperation of all New York Nurserymen in this connection.

Visit New Nursery

Wednesday, August 10, the general membership gathered at Lawrence Labriola's new nursery on Route 128, between Armonk and Mount Kisco. After registration, President Mouquin introduced Powers Taylor, Eastview, president of the Eastern New York Nurserymen's Association, who, on behalf of his host association, welcomed the nurserymen and guests to Westchester county. Guests were introduced and exhibitors were presented.

Nurserymen toured the nursery, inspected the machinery and products exhibited and spent the day visiting with each other. A picnic lunch was served, through the generosity of the equipment dealers, at the nursery.

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DURING the course of the National Shade Tree Conference held in Santa Barbara, Calif., August 1 to 5, a dinner meeting of American Association of Botanic Gardens and Arboretums was held at the Restaurante del Paseo August 3, not only for members, but to welcome officers, delegates and guests of the conference who wished to attend.

The 67 persons present represented 10 botanic gardens or arboretums, all in the Pacific coast region except for the Morton Arboretum, Lisle, Ill. Included were the Huntington, Rancho Santa Ana, Santa Barbara, University of California at Los Angeles and University of British Columbia botanic gardens; the Los Angeles State and County Arboretum, the Strybing Arboretum at San Francisco, Finch Arboretum, Spokane, Wash., and the University of Washington Arboretum, Seattle.

University Representatives

In addition there were representatives of the horticultural, botanical or forestry departments of eight universities or colleges; of the United States Department of Agriculture's citrus experiment station at Riverside, Calif. (Dr. W. Stewart), and the presidents of California Garden Clubs, Inc. (Mrs. J. J. Gallagher), and of the California Arborists' Association (J. A. Davis).

The president, Carl Fenner, Lansing, Mich.; Vice-president Pierre Miller, Los Angeles, and Secretary-treasurer Dr. L. C. Chadwick, secretary also of the National Shade Tree Conference, sat at the head table, together with an honored guest of the conference, Dr. Homer LeRoy Shantz, former president of the University of Arizona.

The chairman was Maunsell Van

Botanic Garden and Arboretum Association at Santa Barbara

By B. O. Mulligan

Rensselaer, director of the Saratoga Horticultural Foundation, Saratoga, Calif. After introductions, a report was read from the president of the association, John Wister, director of the Scott Horticultural Foundation, Swarthmore, Pa., who was, unfortunately, unable to be present. In this report Mr. Wister stated that the new crab apple survey by Dr. Donald Wyman is at the printer's and expected to be published this fall and that it is hoped by next spring to produce a check list of maples. Mr. Wister also stressed the present importance of horticulture throughout the nation and how urgent it is to obtain greater public recognition and support for institutions concerned.

Morton Arboretum Program

Thereafter J. Sterling Morton, chairman of the board of trustees of the Morton Arboretum and grandson of the founder of Arbor day, introduced with warm appreciation Clarence Godshalk, director and moving spirit of the Morton Arboretum almost since its inception about 1921.

Mr. Godshalk proceeded to give the company a fascinating and stimulating review of the past, present and future developments at this arboretum, which now covers 1,200 acres of land, possesses 15 miles of roads, 25 miles of trails and 16 parking lots, used by 750 cars per hour at week-ends in summer. More important, the plant collections num-

ber some 5,000 kinds of trees and shrubs, labeled and arranged for interest, beauty and study purposes.

Groups arranged for landscape effect attract the most attention and are, therefore, especially featured. Some sections are devoted to plants from certain areas—a geographical arrangement which can be most educational and informative to the visitor—or to botanical groups of one genus, such as the juniper, ash or chestnut, which provide opportunity for comparison between species or varieties.

Public Courses

Regular courses and lectures, which when first started drew 300 teachers from local schools, have now been extended to scout leaders, garden club members and other individuals and include evening as well as day classes and a 10-week course in landscape architecture, with a current enrollment of 1,500 persons.

Three nature trails, with another being developed, give opportunity to visitors, especially families and children, to learn the native plants and trees with the aid of guide books, work sheets and keys for identification of leaves.

In the present program of expansion, an additional 400 acres of farm land has been taken into the arboretum and a new laboratory building, with lecture room, offices, greenhouses and workrooms, is being erected behind the present Adminis-

[Continued on page 56]



Speakers' table at the dinner meeting of the American Association of Botanical Gardens and Arboretums, held at Santa Barbara, Calif., August 3. Seated, left to right, are Mrs. Ray D. Hartman; Carl Fenner, president of the National Shade Tree Conference, Lansing, Mich.; Mrs. Maunsell Van Rensselaer; J. Sterling Morton, chairman of the board of trustees, Morton Arboretum, Lisle, Ill.; Clarence E. Godshalk, director, Morton Arboretum; Maunsell Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga, Calif.; Mrs. J. Sterling Morton, and Ray D. Hartman, founder, Saratoga Horticultural Foundation.

Meehan Company Sold

Thomas B. Meehan Co., Inc., Dresher, Pa., discontinued operation as a business September 10. The property which it occupied as a nursery will be taken over by a builder in July, 1958. The firm's nursery stock and business have been sold to the Murglass Corp., who will operate the latter until the building program starts.

Thomas Meehan & Sons, Plymouth Meeting, Pa., will take over the raffia and budding strip business.

Albert F. Meehan, who was president of Thomas B. Meehan Co., Inc., will continue as secretary-treasurer of several trade associations and as such will have the opportunity of meeting his many friends at various conventions. Mr. Meehan has supplied the following notes on the history of Meehan Nursery:

The Meehan Nursery was founded by Thomas Meehan in 1852, at Germantown, Pa. As his children grew up, three of the boys were taken into partnership, namely, Thomas B., J. Franklin and S. Mendelson, and the firm became Thomas Meehan & Sons.

About 1899, the three sons, feeling that the property of approximately 70 acres was not sufficiently large, purchased the ground at Dreshertown (later changed to Dresher), which consisted of six or seven farms, for a total of 220 acres.

About 1915, Thomas Meehan having passed away some years before, the three brothers felt it would be a good proposition to divide the business while all three were in good health and friendly, as the third generation was coming along and it would be a hard matter to figure out just what that generation's interests would be from time to time.

Accordingly, Thomas B. Meehan took over the property at Dresher and the wholesale business, operating under the name of Thomas B. Meehan Co. J. Franklin took over the landscape business and shortly thereafter purchased a property at Plymouth Meeting, in order to produce some of the scarcer varieties of plants he wished to use in landscape planting, and operated under the name of J. Franklin Meehan & Sons. S. Mendelson took over the retail business, operating under the name of Thomas Meehan & Sons.

Upon the death of Thomas B. Meehan, his son, Albert F., took over the business at Dresher, and later two of Thomas B. Meehan's grand-

sons, Robert L. Hood, Jr., and Richard N. Hood, joined him in the business.

At the death of J. Franklin Meehan, his sons, Thomas Meehan II and J. Franklin Meehan, Jr., took over the management of the business, which had been left to his six children, and after the death of J. Franklin, Jr., in World War II, Thomas II bought out most of the interests of his sisters and brother.

S. Mendelson Meehan, one of the original sons, has retired and at present is the nursery editor of the Florists' Exchange.

The oldest son of Thomas Meehan II was killed in the recent war, but the other two sons, Franklin and Robert, are associated with their father.

The name of Meehan may be associated with the nursery business for many years to come.

MID-ATLANTIC FARM SHOW

The New Jersey Association of Nurserymen, under the leadership of Albert Flemmer III, Princeton, will play a major role in staging the mid-Atlantic farm and home show

at Atlantic City, N. J., November 2 to 5. Hearing of the show management's desire to set up a complete, full-size home as the central theme of the home show division, the nurserymen have offered to provide the complete landscape work for the structure.

The home display is expected to be a major attraction at this year's event, according to William Kenny, program director. About 100,000 farmers and urban dwellers are expected to visit the show, and all of them will be interested in modern homemaking.

SPRINKLER ARGUMENT

The California Landscape Contractors' Association has filed a complaint in Superior court at Sacramento, Calif., asking that the city plumbing inspector be restrained from preventing the landscape men from installing lawn-sprinkling systems. The city council, on the recommendation of the city manager and the city plumbing inspector, had ruled none but a licensed plumber could install sprinkler systems under an existing city ordinance. The landscape group insists that the ordinance does not prevent their doing such work, but that if it does, it is unconstitutional.

Pennsylvania Picnic

By Prof. R. P. Meahl

Attendance at the summer meeting of the Pennsylvania Nurserymen's Association at Pennsylvania State University, University Park, August 17, was 125. The day was spent informally. Headquarters were in the picnic area of Horticulture woods, on the campus, and a box lunch was served at noon. The highlight of the day was the chicken barbecue dinner prepared over charcoal in the picnic area.

During the day, educational tours were conducted to experimental plots and landscape plantings on the campus. The campus contains about 250 acres, with buildings and grounds well landscaped with 600 species and varieties of trees and shrubs. A tour was conducted to observe some of the more uncommon specimens.

Additional tours were arranged to the flower and rose test gardens, fine turf grass plots and an aluminum mulching project. The gardens represent the most extensive flower trials in the country. At the turf plots the performance of Merion

Blue and zoysia were compared with other types of grass, such as bent, fescue and Kentucky blue. General-interest tours were taken to the Rockview state penitentiary, Fisherman's Paradise and the art museum on the campus.

President Jesse R. S. Flory, LaBars' Rhododendron Nursery, Stroudsburg, presided at a short business meeting. The business was largely reports by the delegates to the A. A. N. convention. John M. Eisler, Eisler's Nurseries, Butler, reported on the business meetings of the A. A. N. Albert F. W. Vick, Jr., told of the meeting of the National Society of Landscape Nurserymen, and Arthur B. Copenhaver, Copenhaver Nurseries, Mechanicsburg, reported on the social activities of the delegates.

President Flory introduced several guests, among whom were Dr. L. E. Jackson, dean of the college of agriculture of the university; L. H. Bull, deputy secretary of agriculture for Pennsylvania, and T. L. Guyton, director, bureau of plant industry.

SHERWOOD'S CHOICE LINING-OUT

Graded, hardy, northern-grown, transplanted

SHERWOOD PAYS THE COST

The prices here quoted include expert packing and delivery of lining-out stock to you, all shipping charges prepaid to any point in the United States, Canada and Alaska. Lining-out stock is marked with an asterisk*. The prices on B.R. stock are F.O.B. Portland. No packing charge on any stock.

25 at 100 rate 250 at 1000 rate

	Per 100	Per 1000
Ajuga reptans rubra (Purple-leaved Bugle)		
Evergreen ground cover. Blue flower spikes.		
*1-yr. plants	\$ 8.00	\$ 64.00
Aucuba japonica nana (Dwarf Aucuba, Female)		
Dark green leaves. A profusion of bright red berries.		
*6 to 9 ins., once transplanted	\$16.00	\$128.00
Azalea amoena coccinea		
A splendid dwarf evergreen azalea. Red flowers.		
*1 to 3 ins., once transplanted	\$12.00	\$ 96.00
Azalea maxwellii (Maxwell Azalea)		
Carmine-red. One of the finest low evergreens.		
*3 to 6 ins., once transplanted	\$14.00	\$112.00

Azalea mollis (Chinese Azalea)		
Magnificent deciduous azalea. Mostly copper shades.		
*3 to 6 ins., twice transplanted	\$18.00	\$144.00
9 to 12 ins., twice transplanted, B.R., budded	61.00	

Sherwood Cerise Azalea		
A wonderful dwarf evergreen. Bright, clear cerise.		
*3 to 6 ins., once transplanted	\$14.00	\$112.00
Sherwood Orchid Azalea		
Flowers clear lavender. Hardy evergreen.		
9 to 12 ins., twice transplanted, B.R., specimens	\$65.00	

Sherwood Red Azalea		
Compact, dwarf and evergreen. Flowers the most brilliant blood-red imaginable.		
*6 to 9 ins., once transplanted	\$17.00	\$136.00

Berberis darwini (Darwin Barberry)		
Deep green, glossy. Bright orange flowers.		
*6 to 12 ins., once transplanted	\$18.00	\$144.00
Chamaecyparis lawsoniana minima glauca (Little Blue Cypress)		
A beautiful true dwarf conifer, dark and dense, bluish-green foliage.		
*3 to 4 ins., twice transplanted	\$18.00	\$144.00
Chamaecyparis lawsoniana stewartii (Wintergolden Cypress)		
Remarkable slender golden conifer.		
*12 to 15 ins., twice transplanted	\$25.00	\$200.00
18 to 24 ins., twice transplanted, B.R., near specimen	45.00	
Chamaecyparis obtusa ericoides (Sander Cypress)		
Dwarf. Soft plumelike foliage. Purple in winter.		
*1 to 3 ins., once transplanted	\$12.00	\$ 96.00
Chamaecyparis obtusa nana (Dwarf Hinoki Cypress)		
A real genuine dwarf having exceedingly dense, heavy, dark foliage.		
*3 to 4 ins., twice transplanted	\$18.00	\$144.00
Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress)		
Heavy type.		
*9 to 12 ins., once transplanted	\$22.00	\$176.00

Cotoneaster horizontalis (Rock Cotoneaster)		
Well known and deservedly a great favorite; low growing. The side branches grow with a pleasing perfection of regularity; the leaves are small.		
*3 to 6 ins., once transplanted	\$10.00	\$ 80.00
*6 to 9 ins., once transplanted	14.00	112.00

Cryptomeria japonica lobbi (Lobb Cryptomeria)		
An upright, shapely, dwarf conifer growing to a few feet in height.		
*6 to 9 ins., twice transplanted	\$25.00	\$200.00
Cryptomeria japonica lobbi nana (Dwarf Lobb Cryptomeria)		
Dwarf, compact, bright green turning purple in winter.		
*1 to 3 ins., once transplanted	\$14.00	\$112.00
Cryptomeria japonica nana (Dwarf Cryptomeria)		
Light green, hardy, very compact globe, extremely dwarf.		
*6 to 9 ins., twice transplanted	\$25.00	\$200.00
Cytisus praecox (Warminster Broom)		
Graceful, pendulous. An enormous profusion of cream flowers.		
*6 to 12 ins., once transplanted	\$15.00	\$120.00
Cytisus purgens (Provence Broom)		
Dwarf, hardy, compact. A profusion of yellow flowers.		
*6 to 12 ins., once transplanted	\$15.00	\$120.00
Daphne mezereum rubra (Red February Daphne)		
*1 to 3 ins., not transplanted	\$ 9.00	\$ 72.00
Erica carnea (King George)		
Low growing. Completely covered with red flowers.		
*1 to 3 ins., once transplanted	\$ 9.00	\$ 72.00
Erica carnea sherwoodii (Sherwood Creeping Heath)		
Low creeper. Flowers bright carmine-red.		
*1 to 3 ins., once transplanted	\$ 9.00	\$ 72.00
Erica carnea (Springwood White)		
Fine, low-growing heath with an abundance of white flowers.		
*6 to 9 ins., twice transplanted	\$20.00	\$160.00
Euonymus radicans (Wintercreeper)		
Hardy, low, procumbent.		
*3 to 6 ins., once transplanted	\$13.00	\$104.00
Euonymus radicans argenteo-marginatus (Silveredge Wintercreeper)		
Beautiful variegated evergreen.		
*3 to 6 ins., once transplanted	\$13.00	\$104.00
Euonymus radicans coloratus (Purple-leaved Wintercreeper)		
Trailing ground cover.		
*6 to 12 ins., once transplanted	\$13.00	\$104.00
Euonymus radicans vegetus (Big-leaved Wintercreeper)		
*1 to 3 ins., once transplanted	\$10.00	\$ 80.00
Gaultheria procumbens (Wintergreen)		
The fine foliage, the small, delicate, pink, bell-shaped flowers, the brilliant red berries and its hardness combine to make it one without peer in its class.		
*2-yr., once transplanted	\$10.00	\$ 80.00
Ilex aquifolium angustifolia (Narrow-leaved Holly)		
Petite, spire-like evergreen. Red berries. Rare.		
*1 to 3 ins., once transplanted	\$15.00	\$120.00
Juniperus chinensis sargentii (Sargent Juniper)		
Bluish-green. It is a wide, low-growing, spreading Juniper.		
9 to 12 ins., twice transplanted, B.R., near specimen	\$49.00	
Juniperus horizontalis glauca (Blue Creeping Juniper)		
12 to 15 ins., twice transplanted, B.R., near specimen	\$65.00	
Juniperus sabina tamariscifolia (Tamarix Savin Juniper)		
Color a bright, cheerful bluish-green throughout the year.		
6 to 9 ins., twice transplanted, B.R., near specimens	\$41.00	

Kalmia latifolia (Mountain Laurel)		
Native of the Appalachian mountains. Compact, symmetrical.		
*9 to 12 ins., once transplanted	\$25.00	\$200.00

Mahonia aquifolium (Oregon Grape)		
An ornate little evergreen shrub, native of Oregon.		
*9 to 12 ins., once transplanted	\$15.00	\$120.00
Mahonia nervosa (Long-leaved Hollygrape)		
Plants grow 12 to 18 ins. tall, beautifully fernlike in form.		
*9 to 12 ins., once transplanted	\$17.00	\$136.00

and BARE - ROOT EVERGREENS

stock, with heavy vigorous root system.

	Per 100	Per 1000
Nandina domestica (Nandina)		
Delicate foliage, large clusters of bright red berries.		
*15 to 18 ins., once transplanted.....	\$21.00	\$168.00
Osmanthus delavayi (Delavay Osmanthus)		
A real garden aristocrat.		
*1 to 3 ins., once transplanted.....	\$10.00	\$ 80.00
Osmarea burkwoodi (Burkwood Osmarea)		
Delightful graceful evergreen. Fragrant flowers.		
*1 to 3 ins., once transplanted.....	\$10.00	\$ 80.00
Pachysandra terminalis (Japanese Spurge)		
Of Japanese origin, is evergreen and grows in dense masses.		
*2-yr. plants.....	\$10.00	\$ 80.00
Phillyrea decora (Lance-leaved Phillyrea)		
Elegant round-topped shrub. White flowers. Rare.		
*1 to 3 ins., once transplanted.....	\$10.00	\$ 80.00
Picea engelmanni (Engelmann Spruce)		
Dense, slender. Bluish-green foliage.		
*9 to 12 ins., not transplanted.....	\$ 8.00	\$ 64.00
Picea excelsa (Norway Spruce)		
One of the best known and one of the hardiest of conifers.		
*15 to 18 ins., once transplanted.....	\$18.00	\$144.00
Picea excelsa mucronata (Dwarf Norway Spruce)		
Genuine dwarf. Dense, dark green. One of the best.		
*6 to 9 ins., twice transplanted, B.R., specimens.....	\$65.00	
Picea excelsa nidiformis (Nest Spruce)		
Wonderful, dwarf, dark green, flattened globe.		
*3 to 6 ins., once transplanted.....	\$18.00	\$144.00
Picea excelsa sherwoodi (Sherwood's Multnomah Spruce)		
Beautiful, dwarf, irregular globe. New.		
*6 to 9 ins., once transplanted.....	\$25.00	\$200.00
Picea glauca albertiana (Alberta Spruce)		
A very hardy form of the white spruce, native to Alberta.		
*1 to 3 ins., not transplanted.....	\$ 4.00	\$ 32.00
Picea glauca densata (Black Hills Spruce)		
A handsome, hardy tree of symmetrical habit of growth.		
*3 to 6 ins., not transplanted.....	\$ 5.00	\$ 40.00
Picea orientalis aurea (Golden Oriental Spruce)		
Hardy, rapid-growing, golden conifer.		
*3 to 6 ins., once transplanted.....	\$18.00	\$144.00
Pieris japonica (Oriental Pieris)		
One of the very best evergreen ornamentals.		
*6 to 9 ins., twice transplanted.....	\$28.00	\$224.00
Pinus griffithi (Griffith Pine)		
Sometimes called the blue pine. Rare.		
*3 to 6 ins., not transplanted.....	\$ 8.00	\$ 64.00
Pinus jeffreyi (Jeffrey Pine)		
A rather open picturesque, spire-shaped conifer native of Oregon.		
*9 to 12 ins., once transplanted.....	\$17.00	\$136.00

Pinus mugo compacta (Mugho Pine)

A dense, stout dwarf evergreen, of unquestionable hardiness. Coming from the high mountains of central Europe, it has been dwarfed as trees frequently are that are storm-swept for centuries.

*6 to 9 ins., once transplanted..... \$20.00 \$160.00

Pinus patula (Jelecot Pine)

Silky foliage. Decidedly unusual. Lovely.

*3 to 6 ins., not transplanted..... \$ 6.00 \$ 48.00

Pseudotsuga douglasii (Douglas Fir)

A truly stately tree. Silver strain.

*12 to 15 ins., once transplanted..... \$18.00 \$144.00

Rhododendron maximum (Rosebay Rhododendron)

Large, rapid-growing shrub. Leaves often 12 ins. long.

12 to 15 ins., twice transplanted, B.R.,

near specimen..... \$65.00

Rhododendron ponticum (Pontic Rhododendron)

Hardy, vigorous, good for naturalizing.

3 to 6 ins., once transplanted..... \$15.00 \$120.00

Taxus baccata (English Yew)

Possibly the greatest of all hedge evergreens.

12 to 15 ins., twice transplanted, B.R.,

hedging grade..... \$65.00

Taxus cuspidata (Japanese Yew)

One of the most satisfactory of dwarf evergreens. Hardy.

12 to 15 ins., twice transplanted, B.R.,

hedging grade..... \$65.00

Thuja occidentalis (American Arborvitae)

Native New Brunswick and Manitoba to North Carolina.

*12 to 15 ins., twice transplanted

field-grown..... \$25.00 \$200.00

18 to 24 ins., twice transplanted, B.R.,

hedging grade..... 49.00

2 to 3 ft., twice transplanted, B.R.,

hedging grade..... 73.00

Thuja occidentalis pyramidalis (American Pyramidal Arborvitae)

A most desirable arborvitae of narrow columnar growth, dense.

*12 to 18 ins., twice transplanted, field-grown..... \$30.00 \$240.00

Thuja orinetalis aurea nana (Berkmans Golden Arborvitae)

Most popular dwarf, golden arborvitae.

*1 to 3 ins., once transplanted..... \$13.00 \$104.00

Veronica hectori

A most unusual evergreen of many filaments.

*6 to 9 ins., once transplanted..... \$14.00 \$112.00

Veronica officinalis (Ground Speedwell)

A remarkable, hardy, evergreen ground cover for shady places.

*Rooted layers..... \$ 7.00 \$ 56.00

A FINE ASSORTMENT OF B&B STOCK. MANY OTHER

VARIETIES AND GRADES.

Write for descriptive catalog.

REMEMBER: Sherwood Nursery Co. prepaes shipping costs on lining-out stock to all points in the United States, Canada and Alaska. In other words, the prices here quoted are net cash prices delivered to you. Now is the time to place your order for spring delivery.



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(It contains complete descriptions)

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BROAD-LEAVED EVERGREENS

Abelia Grandiflora
Buxus Harlandi
Buxus Sempervirens
Cotoneaster Francheti
Cotoneaster Horizontalis
Elaeagnus Fruitlandi
Elaeagnus Simoni
Euonymus Coloratus
Euonymus Fortunei Erectus
(small leaf)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
(heavily sheared)
Ilex Vomitoria
(well sheared)
Pride of Houston
Jasminum Floridum
Laurel Cherry
(well sheared)
Ligustrum Lucidum
(Black Wax)
Ligustrum Lucidum
(Griffing type)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

CONIFERS

Arborvitae, Or. Baker
Arborvitae, Or. Berckmans
(Aurea Nana)
Arborvitae, Or. Blue Cone
(very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland
(Green Berckmans)

CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Nigra
(Dark Green)
Arborvitae, Occ. Pyramidalis
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi
(staked and sheared)
Juniperus Hibernica
(Irish)
Juniperus Pfitzeriana
Juniperus Pfitzeriana Aurea
Juniperus Pfitzeriana Compacta
Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron
(staked and sheared)
Juniperus Scopulorum
Juniperus Sylvestris
(Chinensis Femina)
Juniperus Virginiana Burki
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Mughus
Pinus Nigra
(Austrian Pine)
Pinus Sylvestris
(Scotch Pine)

CANNED STOCK

Abelia Grandiflora
Gardenia Fortunei
Gardenia Mystery
Ilex Burfordi
Ilex Convexa
Ilex Helleri
Ilex Rotundifolia
Magnolia Grandiflora
Pyracantha Formosana
(light)
Pyracantha Lalandi
(light)
Crape Myrtle

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COMING EVENTS

MEETING CALENDAR

September 13 to 15, California Association of Nurserymen, Yosemite National Park, Calif.

September 15, Western New York Nurserymen's Association, fall outing, Geneva, N. Y.

September 16 and 17, Louisiana State Nurserymen's Association, convention, Blackham Coliseum, Lafayette, La.

October 21 to 23, Texas Rose Festival, Tyler, Tex.

October 21 to 24, Florida Nurserymen and Growers Association, annual meeting and trade show, San Juan hotel, Orlando, Fla.

October 24 to 26, annual convention and national flower show, American Rose Society, Tyler, Tex.

November 20 to 21, New Jersey Federation of Shade Tree Commissions, in conjunction with the Arborist Association of New Jersey and the New Jersey Society of Certified Tree Experts, 30th annual meeting, Hotel Traymore, Atlantic City, N. J.

ALL-JERSEY MEET CANCELED

The All-Jersey Florists' and Nurserymen's Association held a special meeting at the Robert Treat hotel, Newark, N. J., recently. The meeting was called to order by President Al Jaeger. The minutes of two previous meetings were read by Secretary Lloyd Wikstrom.

After a general discussion, it was decided definitely to cancel the convention that had been scheduled for October 11 and 12.

Mr. Jaeger spoke on the coming mid-Atlantic farm show, to be held this fall in Atlantic City. Prof. Malcolm R. Harrison pointed out that all other state agricultural groups will be participating in the show, and the assembled group decided to make plans to participate also.

TEXAS ROSE FESTIVAL

Colorful and dramatic presentations of roses are anticipated to make this year's Texas rose festival at Tyler, Tex., October 21 to 23, a spectacle equal in interest and excitement to any in the series to date. Again members of the Texas Rose Growers' Association will take a prominent part in the celebration, supplying blooms for the many events and welcoming visitors to the acres of growing fields.

During the entire festival a rose show with a million blooms will be open to the public in the Flower



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ALL P & D ROSES are budded on a "Super Strain" Multiflora Root. This basic improvement in roses is exclusively ours after 20 years of development. It means bigger, better, hardier roses... less loss in handling... and greater customer satisfaction.

We are now booking orders for pool car shipment of these famous Oregon-grown roses for fall delivery to principal eastern and southern points. For latest listings and shipping dates, wire or airmail today.



2 EXTRA SERVICES ... at No Extra Cost

- ① EACH BUSH individually labeled.
- ② EACH BUSH individually top-tied.

Two little extras that mean a lot.

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MUSSER TREES GROW

Good heredity, careful selection of seed and scientific culture in the nursery assure superior stock. **Heavy Roots — Sturdy Tops,** assure rapid growth.



Comparison of MUSSER seedling (at right of picture) with an ordinary seedling.

SEEDLINGS AND TRANSPLANTS AT LOW QUANTITY PRICE

	Per 100	Per 1000		Per 100	Per 1000
• SPECIAL STRAIN SCOTCH PINE					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$35.00			
• MUGHO PINE					
4-yr., S., 5 to 10 ins.	10.00	50.00			
5-yr., T., 5 to 9 ins.	25.00	.....		
• BLACK HILLS SPRUCE					
3-yr., S., 4 to 8 ins.	8.00	40.00			
5-yr., T., 5 to 16 ins.	30.00	150.00			
• SERBIAN SPRUCE					
3-yr., S., 4 to 8 ins.	12.00	60.00			
3-yr., T., 4 to 8 ins.	20.00	.....		
• NORWAY SPRUCE					
Fast-growing. Special strain of our collection.					
2-yr., S., 5 to 10 ins.	7.00	35.00			
5-yr., T., 8 to 12 ins.	30.00	150.00			
Excellent understock.					
• WHITE SPRUCE					
3-yr., S., 8 to 12 ins.	8.00	40.00			
3-yr., T., 5 to 10 ins.	13.00	65.00			
• COLORADO BLUE SPRUCE					
3-yr., S., 5 to 10 ins.	10.00	50.00			
4-yr., T., 6 to 10 ins.	25.00	125.00			
• DOUGLAS FIR					
3-yr., S., 8 to 12 ins.	10.00	50.00			
• AMERICAN ARBORVITAE					
3-yr., S., 6 to 14 ins.	8.00	40.00			
• CANADIAN HEMLOCK					
3-yr., S., 8 to 14 ins.	20.00	100.00			
• RED BARBERRY					
3-yr., S., 6 to 12 ins.	11.00	55.00			
4-yr., S., 12 to 18 ins.	16.00	80.00			
• JUNIPERUS VIRGINIANA					
2-yr., S., 8 to 16 ins.	10.00	50.00			
4-yr., T., 8 to 12 ins.	16.00	80.00			
• JAPANESE YEW					
<i>Taxus cuspidata capitata</i>					
2-yr., S., 3 to 6 ins.	\$20.00	.....		
3-yr., S., 6 to 12 ins.	40.00	\$250.00			
<i>Taxus cuspidata</i>					
1-yr., T., 5 to 6 ins.	20.00	150.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus hicksi</i>					
1-yr., T., 6 to 8 ins.	25.00	175.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus Moon's columnaris</i>					
1-yr., T., 4 to 6 ins.	25.00	.....		
<i>Taxus brownii</i>					
1-yr., T., 5 to 7 ins.	25.00	175.00			
2-yr., T., 6 to 10 ins.	40.00	350.00			
<i>Taxus kunnewelliana</i>					
2-yr., T., 8 to 12 ins.	40.00	.....		
<i>Taxus hatfieldii and hicksi</i>					
TT., 15 to 20 ins.	.....	150.00			
Field-grown. Sheared.					
• JUNIPERUS HETZI GLAUCA					
1-yr., T., 6 to 8 ins.	25.00	200.00			
• LOBE ARBORVITAE					
<i>Woodwardi</i>					
1-yr., T., 5 to 7 ins.	30.00	250.00			
<i>Hovey's</i>					
1-yr., T., 5 to 7 ins.	30.00	200.00			
• PYRAMIDAL ARBORVITAE—Compacta					
1-yr., T., 5 to 7 ins.	25.00	200.00			
• JAPANESE HOLLY					
<i>Ilex rotundifolia</i>					
1-yr., T., 5 to 8 ins.	20.00	150.00			
<i>Ilex convexa</i>					
1-yr., T., 5 to 8 ins.	20.00	150.00			
• NORWAY MAPLE					
2-yr., S., 9 to 18 ins.	15.00	75.00			
• WHITE DOGWOOD					
2-yr., S., 18 to 24 ins.	15.00	75.00			

Many Other Evergreen Items—Rhododendron and Azaleas

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Center building in Rose park. In addition, from October 24 to 26, the national rose show of the American Rose Society will be held in the same quarters, in connection with the annual autumn convention of the society. The Tyler chapter will be host.

The gala opening event is always the crowning of the rose queen at a spectacular ceremony staged in the Civic auditorium. Besides making field tours, visitors will have an opportunity to view the Tyler municipal rose garden, the largest in the country, containing 20,000 rose-bushes of 400 varieties.

Rose-adorned floats will be part of a 2-mile-long parade, in which bands and drill teams will also be featured. Other highlights of the festival will be a fiesta night, coronation balls and vesper services.

A schedule of the main events follows:

OCTOBER 21

11 a.m.—Flower show opens in the Flower Center building in Rose park.

Rose field tours begin, starting from the Rose Show building in Rose park.

12 noon—Festival luncheons.

3:30 to 5:30 p.m.—Queen's tea.

7:30 p.m.—Rose queen's coronation, in the Municipal auditorium.

10 p.m.—Order of the Rose Queen's ball.

OCTOBER 22

10 a.m.—Rose parade, West Front street into the Rose stadium at the fairgrounds.

11 a.m.—Rose field tours.

12 noon—Rose show continues.

7 p.m.—Fiesta night in the Rose stadium.

10 p.m.—Queen's ball.

OCTOBER 23

11 a.m.—Rose show and field trips continue.

Special church services.

5 p.m.—Rose vesper services.

OCTOBER 24 to 26

National rose show, sponsored by the American Rose Society, in connection with the annual autumn convention of the society.

FLORIDA MEET SET

October 21 to 24 have been announced as the dates for the annual trade meet of the Florida Nurserymen and Growers Association, the event to be held at the San Juan hotel, Orlando. There will be exhibits by both nurserymen and allied tradesmen, and the program includes nationally known speakers who will talk on trade problems and new developments of interest.

Reservations can be sent directly to the San Juan hotel. Information regarding exhibit space can be obtained from James Griffin, executive secretary of the F. N. G. A., 286 West Mashta drive, Key Biscayne, Miami, Fla.



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TULIPS

Darwin Tulips

(In bags of 100)		Per 1000
Top size—13 cm. and up		
Afterglow—Orange-salmon edge, 26 ins.		\$42.00
Allbright—Bright red, 24 ins.		40.00
Bartigon—Crimson-red, 24 ins.		38.00
Charles Needham—Extra scarlet, 28 ins.		55.00
Clara Butt—Appleblossom-pink, 26 ins.		38.00
Cordell Hull—Red with white stripes		50.00
Fancombe Sanders—Rose-scarlet, 28 ins.		38.00
Greuze—Violet-blue, 26 ins.		40.00
Pride of Haarlem—Large red, 28 ins.		38.00
Princess Elizabeth—Rose-pink, 26 ins.		40.00
Prunus—Salmon-pink, 24 ins.		38.00
Queen of Night—Black, 28 ins.		38.00
Red Pitt—Scarlet, good forcer, 26 ins.		42.00
Rose Copland—Orchid, 24 ins.		38.00
Victoire d'Olivera—Deep red, 28 ins.		38.00
Wm. Pitt—Red, 24 ins.		38.00
Yellow Giant—Deep yellow, 30 ins.		40.00
Zwanenburg—Pure white, 26 ins.		40.00
Rainbow Mixture—All colors		36.00

Cottage Tulips

Albino—Pure white, 22 ins.	42.00
Carrara—Purest white, 24 ins.	40.00
Dido—Orange-red with orange edge, 28 ins.	40.00
Golden Harvest—Pure, large yellow	40.00
Marjorie Bowen—Soft salmon-rose, 28 ins.	40.00
Mothers Day—Pale yellow, 28 ins.	38.00
Princess Margaret Rose—Yellow, red edge	38.00
Rainbow—Fine Mixture	36.00

Peony-flowering Tulips

Coxa—Orange-red, yellow margin, 24 ins.	75.00
Eros—Old rose, very double, 28 ins.	80.00
Mt. Tacoma—Pure white, 28 ins.	50.00
Nizza—Yellow striped, feathered red	
26 ins.	50.00
Uncle Tom—Dark glittering red, 28 ins.	95.00

HYACINTHS

(Packed 50 in a bag)

Bismarck, porcelain-blue	
King of the Blues, deep blue	
La Victoire, fine red	
L'Innocence, pure white	
Marconi, deep pink	
Ostara, medium blue	
Queen of the Blues, light blue	
Queen of the Pinks, large pink	
Yellow Hammer, golden-yellow	

Per 100

Top size 18 to 19 cm.	\$12.50
Extra bedding size 15 to 16 cm.	8.00

MUSCARI

Per 1000

(Grape Hyacinths) Top size.	\$16.00
Album—White	25.00

DUTCH IRIS

Wedgwood—Light blue	10 to 11 cm.	9 to 10 cm.	8 to 9 cm.
	\$40.00	\$28.00	\$18.00
Golden Harvest—Yellow	8 to 9 cm.	7 to 8 cm.	6 to 7 cm.
	\$28.00	\$18.00	\$10.00
H. C. Van Vliet—Blue	28.00	18.00	10.00
Imperator—Deep blue	25.00	16.00	10.00
White Excelsior—White	28.00	20.00	12.00

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COVER ILLUSTRATION

Aesculus Carnea Plantierensis

Aesculus carnea, the red horse-chestnut, is a fairly common small tree which has gained in popularity during recent years, but the variety *plantierensis* is much less common. In many respects, the variety is much like the species, although it becomes a larger tree at maturity, and the flowers are not so red.

One reference indicates that the *plantierensis* variety is actually a hybrid between *A. carnea* and *Aesculus hippocastanum* which was grown at Plantieres, near Metz, about 1890. It is described as a tree reaching 50 feet at maturity and is intermediate between the parents in most of its characteristics.

The leaflets usually number seven, whereas *Aesculus carnea* usually has five. The leaflets measure up to eight inches in length and are bluntly toothed. The flowers are suffused with soft pink. The flowers are usually sterile, the fruit not becoming larger than large peas. The fruit is prickly when it is produced.

Little information is available on the cultural requirements of this variety of red horsechestnut, but if it is similar to that of the parents, it will do well in average garden soil.

The flowers are the attractive characteristic of the plant, but are usually not so attractive as those of *Aesculus carnea*. The common horsechestnut is considered a dirty tree, due to the dropping flowers, fruits and sometimes the leaves. In respect to the criticism of the fruit of the horsechestnut, the sterile character of the *plantierensis* variety would be an asset. However, chemicals can now be used almost completely to eliminate fruit-set on the horsechestnut.

It is probable that *Aesculus carnea plantierensis* will be used sparingly as an ornamental tree, because it has little to recommend it over *Aesculus hippocastanum*, and it is not so attractive as *Aesculus carnea* and *Aesculus carnea brioti*.

L. C. C.

JOHN EVERS, 7801 Rosewood, Prairie Village, Kan., is currently lining out shrubs and growing perennials on two acres of land. Mr. Evers is training under the GI bill as a nurseryman and expects to have a full-time nursery business upon completion of his course.

Still another example of how Monrovia Nursery helps you build your business!

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LINERS

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Every step of the growing process is easier with pot grown MN liners! Unlike field-grown stock, they come to you with husky, fully developed root systems still in the original, rich growing soil. They're ready

for *immediate* growing-on. As an extra bonus, your MN liners are safety-packed free of charge in lightweight containers that lower your freight costs. Order today for immediate or spring delivery!

CHOICE MN LINER SELECTIONS

2 1/4-inch pots—minimum 25 per variety. Order now for immediate or spring delivery.

	PRICE PER 100		PRICE PER 100
Abelia grandiflora prostrata (pat. pend.)	\$30.00	Juniperus excelsa stricta	\$17.50
Cedrus atlantica, seedlings	17.50	Mahonia aquifolium	15.00
Cedrus libani	17.50	Mahonia bealei	20.00
Euonymus coloratus	15.00	Pinus sylvestris	15.00
Euonymus japonicus aureo, variegated	17.50	Podocarpus macrophylla maki	17.50
Euonymus patens Newport	15.00	Pyracantha coccinea wyatti	17.50
Hypericum hidcote	17.50	Pyracantha Rosedale (T. M. Reg.)	17.50
Idesia polycarpa	25.00	Sequoia gigantea	25.00
Ilex altaclarensis wilsoni	30.00	Thuja occidentalis pyramidalis	17.50
Ilex cornuta burfordi	15.00	Viburnum opulus sterile	17.50
Ilex crenata convexa bullata	17.50	Weigela vaniceki	17.50



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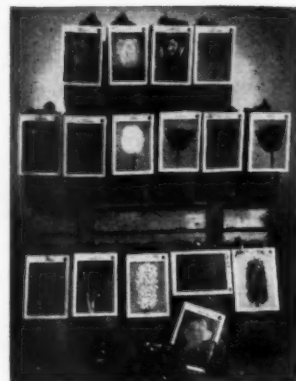
Prepacked in Holland, these Special Collections for Counter Sales have proven themselves so popular, and our volume in them has increased so greatly that we offer them this year at NO INCREASE IN PRICE. Colored pictures of all items, streamers, display cards and planting instructions included free of charge with each collection. No charge for cases, packing, duty or insurance.

Each Collection contains 1650 bulbs, as follows:

1000 TULIPS First Size 11 to 12 Centimeters	100 Wm. Pitt, bright red.	100 Bandoeng, mahogany flushed orange.	100 Golden Harvest, clear yellow.
	100 Orange Favorite, orange Parrot tulip	100 Rhineland, red, edged yellow.	100 Prunus, rose-pink.
SUGGESTED RETAIL: 7c each	100 Campfire, blood-red.	100 Fantasy Parrot, pink and green.	100 Queen of Night, deep maroon.
100 HYACINTHS 15 to 16 Centimeters	30 Blue Hyacinths 30 Pink Hyacinths 40 White Hyacinths	SUGGESTED RETAIL: 15c each	
250 CROCUSES—Mixed colors, 7 to 8 centimeters.	RETAIL: 3c each		
250 MUSCARI—Grape Hyacinth, 7 to 8 centimeters.	RETAIL: 2c each		
50 DAFFODILS—King Alfred (yellow trumpet), D.N. No. 2.	RETAIL: 15c each		

TOTAL SUGGESTED RETAIL SELLING PRICE: \$105.00

YOUR COST: \$49.50 per collection (1650 bulbs)



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FLOOD DAMAGE

[Continued from page 12]

thing at the Adams Nursery was that not a pane of glass in the greenhouses was broken. Warehouses and other buildings acted as buffers and broke the current so that logs and other debris broke around them instead of through them. The only building lost was a fertilizer shed that was full of fertilizer.

Griffen's Nursery, Southwick, was practically without damage, although the town of Southwick had 23 bridges and culverts washed out.

Hartford and Bloomfield nurseries were in about the same shape as nurseries farther south; there was some washing and flooding, but little stock or equipment were lost. This held for Cascio Nursery, Hoffman Nursery and Scott's Nurseries. Ironically, both Scott and Hoffman lost their irrigation pumps when the Farmington river cut a new channel. It was reported that the pumps went down the river as though they were chips of wood.

Nursery Becomes Lake

Hampden Nursery, Hampden, Mass., always outstandingly neat and clean, became a shallow lake that left debris of all kinds as it settled and flowed off. The nursery

is flat, with a mountainside at one end. Water came down with such force that one end of the field is piled with boulders weighing up to 50 pounds or more, forming an acre of stone two to three feet deep.

At the Bigelow Nursery, Northboro, Mass., well east in the state, loss was confined to a little flooding by a brook that overflowed. No serious losses have been reported in that area.

LaBars' Suffers

LaBars' Rhododendron Nursery, Stroudsburg, Pa., states its loss is small compared to what it could have been. The river flowing through the nursery is normally a slow-moving stream, but as torrents came down other courses, the LaBar stream backed up and flooded a part of the nursery. However, it was not fast-moving water and therefore did not tear everything out. In fact, the bridge at the nursery was about the only one left and the only way to get into and out of Stroudsburg. Even so, losses will run to many thousands of dollars.

Although many individuals say their losses are small, the totals will run as high as the losses in Carol and Edna last year, not in stock, but in the hours of labor to clean up and in



LINING-OUT STOCK

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

GROWERS

EVERGREEN TREE LINING-OUT STOCK

SUNCREST EVERGREEN NURSERIES

P. O. Box 305

HOMER CITY, PA.

IMPORTED HOLLAND BULBS

Exhibition Quality—Prompt Service—True to Name—Up to Size

**ALL
PRICES
PER
1000**

TULIPS and CROCUS — 100 of a variety and size at 1000 rate.
HYACINTHS and NARCISSI — 50 of a variety and size at 1000 rate.
IRIS and MISCELLANEOUS BULBS — 250 of a variety and size at 1000 rate.

Orders should be in multiples of 50, 100 or 250 as shown above.

	12-cm. and up 12-cm.	11 to 12-cm.
DARWIN TULIPS		
AFTERGLOW, orange-rose	\$45.00	\$40.00
ALLBRIGHT, bright red	45.00	35.00
ARISTOCRAT, soft violet-rose	50.00	40.00
BARTIGON MAX, clear crimson	50.00	40.00
BLEU AIMABLE, heliotrope-blue	45.00	40.00
CAMPFIRE, blood-red	45.00	40.00
CHARLES NEEDHAM, vermillion	55.00	45.00
CITY OF HAARLEM, large deep red	60.00	55.00
CLARA BUTT, salmon-pink	40.00	35.00
DEMETER, deep violet-blue	50.00	40.00
FARNCOMBE SANDERS, bright red	45.00	40.00
GIANT, purple-violet, large	50.00	45.00
GLACIER, fine ivory-white	50.00	40.00
GOLDEN AGE, deep golden-yellow	55.00	50.00
INSURPASSABLE, lilac	50.00	45.00
LA TULPE NOIRE, maroon-black	40.00	35.00
MARGAUX, deep wine-red	40.00	35.00
MRS. GRULLEMANS, creamy-white	45.00	40.00
NIPHETOS, soft sulphur-yellow	50.00	45.00
PHILIP SNOWDEN, carmine-rose	40.00	35.00
PRIDE OF HAARLEM, cerise	40.00	35.00
PRIDE OF ZWANENBURG, rose	50.00	40.00
PRINCESS ELIZABETH, rose-pink	40.00	35.00
PRUNUS, salmon-pink	40.00	35.00
PURPLE COPLAND, purple	40.00	35.00
QUEEN OF NIGHT, velvet maroon	40.00	35.00
RED PITT, bright red	45.00	40.00
SCARLET LEADER, brilliant red	50.00	45.00
SCOTCH LASSIE, deep lavender	40.00	35.00
THE BISHOP, purple-violet	50.00	40.00
WM. COPLAND, bright lavender	40.00	35.00
WM. PITT, cochineal-red	40.00	35.00
WHITE GIANT, pure white	50.00	45.00
YELLOW GIANT, golden-yellow	45.00	40.00
ZWANENBURG, pure white	45.00	40.00
RAINBOW DARWIN MIXTURE	40.00	35.00

PARROT TULIPS		
BLACK PARROT, glossy black	45.00	55.00
BLUE PARROT, heliotrope-blue	50.00	45.00
DISCOVERY, violet, edged white	70.00	45.00
FANTASY, soft rose, green markings	50.00	45.00
FIREBIRD, intense fire-red	60.00	55.00
GADELAN, violet-mauve	80.00	75.00
ORANGE FAVORITE, orange	50.00	40.00
PIERSON PARROT, deep blood-red	40.00	55.00
RED CHAMPION, bright crimson	60.00	55.00
SUNSHINE, deep golden-yellow	60.00	55.00
THERESA, cochineal-red	55.00	50.00
VIOLET QUEEN, pearl-blue	70.00	60.00
RAINBOW PARROT MIXTURE	55.00	45.00

HYACINTHS		
BISMARCK, sky-blue, early city of Haarlem, yellow		
DELFT BLUE, porcelain-blue		
DR. STRESEMANN, large, bright, clear blue. Fine for pots.	19-cm. and up	\$135.00
GRAND MAITRE, lavender-blue	18 to 19-cm.	120.00
JAN BOS, bright red, early king of the blues, dark blue	17 to 18-cm.	100.00
LADY DORIS, light pink	16 to 17-cm.	85.00
LA VICTOIRE, bright carmine	15 to 16-cm.	70.00
L'INNOCENCE, pure white	14 to 15-cm.	60.00
MARCONI, deep rosy-pink		
OSTARA, deep blue, early		
PINK PEARL, bright rose		
QUEEN OF THE PINKS, pink		

NARCISSI			
BEERSHEBA (Trumpet), finest, purest white	D.N. No. 1	D.N. No. 2	D.N. No. 3
CARLTON (Incomparabilis), yellow, frilled cup	\$140.00	\$125.00	\$95.00
CHEERFULNESS (Poetaz), fully double, pure white	60.00	45.00	35.00
FORTUNE (Incomparabilis), deep yellow, orange cup	60.00	45.00	35.00
GERANIUM (Poetaz), white perianth, orange-red cup	65.00	45.00	30.00
GOLDEN HARVEST (Trumpet), golden-yellow, large	100.00	85.00	75.00
IMPERATOR (Trumpet), white perianth, cream trumpet	95.00	80.00	65.00
INGLESOMBE (Double), soft canary-yellow	85.00	70.00	60.00
KING ALFRED (Trumpet), golden-yellow	85.00	70.00	60.00
LAURENS KOSTER (Poetaz), white perianth, orange cup	65.00	45.00	30.00
MAGNIFICENCE (Trumpet), deep golden-yellow	85.00	70.00	60.00
MOUNT HOOD (Trumpet), pure white, very large	150.00	130.00	100.00
MRS. R. O. BACKHOUSE (Trumpet), white, pink trumpet	110.00	95.00	80.00
REMBRANDT (Trumpet), golden-yellow, large flower	85.00	70.00	60.00
SCARLET ELEGANCE (Incomparabilis), yellow petals, orange cup	70.00	60.00	50.00
SPRING GLORY (Trumpet), white, yellow trumpet	85.00	70.00	60.00
TEXAS (Double), yellow and fiery-orange	115.00	100.00	75.00
TWINK (Double), primrose perianth, orange center	100.00	90.00	70.00
MIXTURE OF TRUMPET VARIETIES ONLY	85.00	65.00	40.00
MIXTURE OF ALL TYPES	45.00	50.00	35.00

COTTAGE TULIPS		
ADVANCE, scarlet, shaded cerise	\$50.00	\$40.00
ALBINO, pure white, large	40.00	35.00
CARRARA, pure white	40.00	35.00
GOLDEN HARVEST, soft yellow	40.00	35.00
G. W. LEAK, geranium lake	50.00	45.00
INGLESOMBE YELLOW, yellow	40.00	35.00
MARSHAL HAIG, brilliant scarlet	50.00	40.00
MRS. J. T. SCHEEPERS, yellow	50.00	40.00
NORTHERN QUEEN, white and pink	50.00	45.00
OSSI OSWALDA, white and rose	45.00	40.00
PRINCESS MARGARET ROSE, yellow, edged red	40.00	35.00
RAINBOW COTTAGE MIXTURE	40.00	35.00
REMBRANDT (BIZARRE) TULIPS		
AMERICAN FLAG, red and white	40.00	55.00
CORDELL HULL, red, streaked white	50.00	45.00
MONTGOMERY, white, edged red	50.00	45.00

HOLLAND-GROWN LILIES		
Early October Delivery		
LILIAM REGALE	Per 100	Per Case
6 to 7-in., 400 per case	\$ 6.00	\$20.00
7 to 8-in., 250 per case	9.00	20.00
8 to 9-in., 200 per case	11.00	20.00
9 to 10-in., 150 per case	14.00	20.00
10 to 11-in., 100 per case	21.00	20.00
LILIAM REGALE HYBRID G. C. CREELMAN		
LILIAM REGALE ALBUM		
LILIAM CENTIFOLIUM		
LILIAM HENRYI		
All Above Varieties:	Per 100	Per Case
6 to 7-in., 400 per case	\$ 7.50	\$25.00
7 to 8-in., 250 per case	11.00	25.00
8 to 9-in., 200 per case	13.50	25.00
9 to 10-in., 150 per case	18.00	25.00
10 to 11-in., 100 per case	26.00	25.00
LILIAM ORANGE TRIUMPH		
LILIAM WILDMOTIAE IMPROVED		
LILIAM SUTCHUENENSE		
LILIAM MAXWILL		
LILIAM TIGRINUM SPLENDENS		
7 to 8-in.: \$15.00 per 100; \$135.00 per 1000.		

BREEDER TULIPS		
LILLENBERG, apricot-orange	\$40.00	\$35.00
GEORGE GRAPE, lavender-mauve	50.00	45.00
LOUIS XIV, purple, bronze tinge	55.00	50.00
ORANGE DELIGHT, clear bronze	60.00	55.00
TANTALUS, yellow and purple	60.00	55.00
VELVET KING, red-purple	50.00	45.00
RAINBOW BREEDER MIXTURE	50.00	40.00

SINGLE EARLY TULIPS		
COULEUR CARDINAL, deep red	\$45.00	\$55.00
GENERAL DE WET, bright orange	50.00	45.00
IBIS, deep pink, white markings	50.00	45.00
KEIZERSKROON, red, yellow edge	40.00	55.00
OLYMPIADE, extra-fine yellow	50.00	45.00
PRINCE CARNAVAL, red and yellow	40.00	55.00
PRINCE OF AUSTRIA, orange-red	50.00	45.00
WHITE HAWK, pure white	50.00	45.00
RAINBOW MIXTURE	50.00	40.00

DOUBLE EARLY TULIPS		
BONANZA, red, edged yellow	50.00	40.00
ELECTRA, deep cherry-red	50.00	40.00
MARECHAL NIEL, yellow	50.00	40.00
MR. VAN DER HOEF, pure yellow	50.00	40.00
MURILLO MAX, white, flushed pink	50.00	40.00
ORANGE NASSAU, orange-scarlet	55.00	45.00
PEACHBLOSSOM, deep rose	50.00	40.00
SCHOONOORD, pure white	50.00	40.00
RAINBOW MIXTURE	50.00	40.00
Available in 10 to 11-cm. size at \$30.00 per 1000.		

DOUBLE LATE TULIPS		
COXA, carmine, edged white	50.00	45.00
EROS, old rose	55.00	50.00
MOUNT TACOMA, pure white	50.00	40.00
NIZZA, red with yellow stripes	50.00	40.00
SYMPHONIA, carmine-rose	45.00	40.00
UNCLE TOM, deep blackish-red	55.00	50.00
RAINBOW MIXTURE	50.00	40.00

LILY-FLOWERED TULIPS		
CAPTAIN FRYATT, garnet-red	95.00	85.00
GOLDEN DUCHESS, primrose-yellow	45.00	60.00
MARIETTE, deep satin rose	45.00	55.00
WHITE DUCHESS, pure white	75.00	70.00
BOTANICAL (SPECIES) TULIPS		
CLUSIANA, crimson and white	45.00	
EICHLERI, crimson-red	35.00	
KAUFMANNIANA, yellowish, exterior	45.00	
MARJOLETTI, red base, yellow edge	45.00	
ORPHANIDEA, bronze-orange, green center	70.00	

FOSTERIANA TYPE:			
PRINCEPS, orange-red	\$45.00	\$55.00	\$45.00
RED EMPEROR, scarlet	55.00	45.00	40.00

PRAESTANS TYPE:			
PRAESTANS, carmine, multiflowered, tall	\$ 90.00		
FUSILIER, improved type, dwarf habit	180.00		
TUBERGEN'S VAR., parent of Fusilier	90.00		

CROCUS				
8-cm., 9-cm., 10-cm., 11-cm.				
BLUE or PURPLE	\$14.50	\$14.50	\$18.50	\$22.50
STRIPED	14.50	16.50	18.50	22.50
WHITE	16.50	18.50	22.50	27.50
YELLOW	25.00	28.50	32.50	37.50
MIXED COLORS	16.00	18.00	22.00	26.00

DUTCH IRIS			
WEDGWOOD, well-graded, healthy stock	Per 100	Per 1000	
8 to 9-cm.	\$2.00	\$12.00	
8 1/2 to 9-cm.	2.50	15.00	
9 to 10-cm.	3.50	27.50	
10 to 11-cm.	5.50	42.50	

	8-cm.	7 to 8-cm.	6 to 7-cm.
GOLDEN EMPEROR , deep yellow	\$42.00	\$28.00	\$16.00
GOLDEN HARVEST , fine golden-yellow	42.00	28.00	16.00
H. G. VAN VLIET , early dark blue	35.00	20.00	12.00
IMPERATOR , late dark blue	40.00	25.00	12.00
WHITE EXCELSIOR , pure white, late	25.00	17.00	10.00
WHITE SUPERIOR , pure white, large flower	30.00	17.00	12.00
YELLOW QUEEN , pure yellow, late		45.00	30.00
DUTCH IRIS—RAINBOW MIXTURE , all colors	35.00	25.00	15.00
CAJANUS (Spanish Iris), dark yellow, late.			
Top Size, \$20.00 per 1000			
IRIS RETICULATA , violet-blue, sweet-scented.			
Top Size, \$20.00 per 1000			

MISCELLANEOUS BULBS			
CHIONODOXA Luciliae (Glory-of-the-Snow), lilac-blue	Per 100	Per 1000	
ERANTHIS Hyemalis (Winter Aconite), golden-yellow	3.00	25.00	
FRITILLARIA Imperialis (Crown Imperial), mixed	100.00		
FRITILLARIA Meleagris (Guinea-Hen Flower), mixed colors	3.00	25.00	
GALANTHUS (Snowdrops), single or double type	3.00	25.00	
MUSCARI Armeniacum or Heavenly Blue (Grape Hyacinth)	2.50	20.00	
MUSCARI Botryoides Alba (Grape Hyacinth), pure white	2.50	20.00	
SCILLA Campanulata, white, blue, pink or mixed	3.00	25.00	
SCILLA Sibirica (Siberian Squill), sky-blue	3.50	30.00	
SCILLA Spring Beauty, larger and taller than Sibirica	4.50	40.00	

TERMS: Net cash. 25% deposit required from firms unknown to us; balance payable on delivery. Prices are subject to change. Subject to prior sale. F.O.B. Farmington.

GROWERS EXCHANGE, INC.

P. O. BOX 396

FARMINGTON, MICH.

POTTED LINERS

	Per 100	Per 1000
<i>Ilex crenata bullata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	\$20.00	\$180.00
<i>Ilex crenata bullata</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	25.00	240.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Ilex crenata Stokes Pat. 887</i> , 2-yr., 2 1/4-in. rose pot, 2 to 4 ins.	30.00	280.00
<i>Ilex glabra</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex glabra</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Juniperus Andorra compacta</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus chinensis pfizeriana</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	225.00
<i>Juniperus chinensis pfizeriana glauca</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	27.50	250.00
<i>Juniperus chinensis pfizeriana glauca</i> , 2-yr., 2 1/4-in. rose pot, 6 to 8 ins.	30.00	275.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus glauca hetzi</i> , 2-yr., 2 1/4-in. rose pot, 6 to 8 ins.	27.50	250.00
<i>Juniperus Irish fastigiata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus baccata repandens</i> , 1-yr., 2 1/4-in. rose pots, 3 to 5 ins.	25.00	230.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 3 to 6 ins.	22.50	200.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 4 to 8 ins.	27.50	250.00
<i>Taxus cuspidata Vermeulen</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins.	24.00	220.00
<i>Taxus media Adams</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media Adams</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins.	24.00	220.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media andersoni</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins.	24.00	220.00
<i>Taxus media browni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 2-yr., 2 1/4-in. rose pot, 5 to 12 ins.	25.00	230.00
<i>Taxus media hatfieldi</i> , No. 24, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media hicksi</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins.	24.00	220.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media thayerae</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	22.50	200.00
<i>Taxus media wellesleyana</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Thuja Douglas Golden</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis elegantissima</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis globe</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis pyramidalis</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Siberian</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Wintergreen Hetz</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	.....
<i>Thuja occidentalis woodwardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00

Taxus capitata, seedling-grown, 2-yr., 3 to 6 ins. \$10.00 \$90.00

The above only a partial list of our potted lining-out stock.

We also grow seedlings and field liners. A complete catalog on request.

HEASLEY'S NURSERIES
Freeport Rd. BUTLER, PA.

equipment lost. Who can figure the loss involved in topsoil washed away? Also what will be the effect of the silt deposited in flooded areas?

E. W. W.

LIGHT NEW JERSEY DAMAGE

Most of the nurseries in north Jersey are on high ground and little damage was traced to Connie and Diane hurricanes.

Wanaque reservoir, which was low, picked up 78 days' supply of water from more than 13 inches of rain that would have come down the Passaic valley and Passaic river.

Gerard Grootendorst, Oakland, had one corner of his nursery under two feet of water, but the ground was so dry the moisture soaked in. However, the small town of Oakland had \$119,000 damage. Some of the residential areas were under five feet of water from the Ramapo river.

William Liffers, Millburn, suffered a little damage to the nursery from the flood waters.

V. Banas, Brookfield Gardens, Delaware, on the Delaware river, received no damage to the nursery, which is on high ground, but the river rose 44 feet and came within 75 feet of the propagating house. A rise of two more feet would have caused flooding. Motorboats were riding on United States Route 6 in Delaware.

William Halliey

SCHOOL LANDSCAPING

[Continued from page 14]

and next go into a smaller group and so on. Be sure, of course, in placing trees that views to the most pleasing parts of the building are framed. These views, too, must be from points that will be used by the students and public. With the large window areas, trees cannot be brought close to the buildings except where shade is required, but this is usually attained by the use of indoor devices.

Approaches

All areas must be accessible to trucks and tractors. A mistake often made is to cut off circulation on one side of a property, school or home. This is rarely advisable. If room is not left for good circulation, a road will be made after the job is finished, maybe by a local bulldozer operator.

The approach to the school by bus is in the rear. All areas for unloading students should be of a hard surface, because there is traffic there during all kinds of weather. These dispersal points vary from three to

FIELD-GROWN AND POTTED EVERGREEN LINERS

ARBORVITAE

Biota Bakeri	
Biota Blue Spire	
Biota Bonita, upright	Each per 1000 rate
2 1/4-in. rose pot, 4 to 6 ins.	\$0.15
2 1/4-in. rose pot, 6 to 8 ins.	.17 1/2
Breckmans Biota Aurea Nana	
2 1/4-in. rose pot, 4 to 6 ins.	.17 1/2
Biota Sybil, upright	
2 1/4-in. rose pot, 8 to 10 ins.	.18
Thuja Woodwardii Globe	
2 1/4-in. rose pot, 4 to 6 ins.	.15

BROAD-LEAVED EVERGREENS

Abelia Grandiflora	
2-yr., field-grown, XX, 12 to 20 ins., heavy	.10
Buxus Suffruticosa	
2-yr., field-grown, XX, 4 to 6 ins.	.12
2-yr., field-grown, XX, 6 to 8 ins.	.15
Ilex Crenata Convexa Bullata	
2-yr., field-grown, XX, 6 to 8 ins.	.15
1-yr., pot-grown	.18
Ilex Crenata Rotundifolia	
Transplanted from pots to field.	
2-yr., XX, 6 to 8 ins.	.12
2-yr., XX, 8 to 10 ins.	.14
2-yr., XX, 10 to 12 ins.	.16
1-yr., pot-grown, heavy	.15
2-yr., pot-grown, heavy	.17
Ilex Cornuta Burfordi	
2-yr., pot-grown	.18
1-yr., pot-grown	.15
Ilex Opaca East Palatka	
2 1/4-in. rose pot, 6 to 8 ins.	.12
2 1/4-in. rose pot, 8 to 10 ins.	.15
2 1/4-in. rose pot, 10 to 15 ins.	.20
Ligustrum Lucidum Compactum	
2-yr., field-grown, XX, 12 to 18 ins.	.10
Magnolia Grandiflora	
2-yr., field-grown, XX	.15
Nandina Domestica	
2-yr., field-grown, XX, 4 to 6 ins.	.05
2-yr., field-grown, XX, 6 to 10 ins.	.08
Cherry Laurel	EACH
2-yr., field-grown, XX, 6 to 8 ins.	\$0.05
Per 1000, \$45.00.	
2-yr., field-grown, XX, 8 to 12 ins.	.07
Per 1000, \$50.00.	
2-yr., field-grown, XX, 12 to 18 ins.	.10
Per 1000, \$75.00.	
Japanese Privet	
2-yr., field-grown, XX, 18 to 24 ins., branched	
Per 1000, \$75.00.	

JUNIPERUS

Andorra Juniper	Each per 1000 rate
1-yr., field-grown, 6 to 8 ins.	\$0.08
1-yr., field-grown, 8 to 10 ins.	.12
1-yr., field-grown, 10 to 12 ins.	.16
2-yr., field-grown, XX, 6 to 8 ins.	.10
2-yr., field-grown, XX, 8 to 10 ins.	.14
2-yr., field-grown, XX, 10 to 12 ins.	.18
Ashford Juniper	
1-yr., field-grown, 6 to 8 ins.	.08
1-yr., field-grown, 8 to 10 ins.	.10
1-yr., field-grown, 10 to 12 ins.	.12
2-yr., field-grown, 10 to 12 ins.	.14
2-yr., field-grown, XX, 12 to 15 ins.	.16

FINISHED B&B STOCK IN TRUCKLOAD AND CARLOAD LOTS

Abelia	
Light, 20 to 36 ins.	\$1.00
Heavy, 36 to 48 ins.	1.25
Andorra Juniper	
15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50
Ashford Juniper	
30 to 36 ins.	1.25
36 to 42 ins.	1.50
Compact English (Improved English)	
3 to 4 ft.	1.25
4 to 5 ft.	1.50
Compact Pfitzer	
15 to 18 ins.	1.50
18 to 24 ins.	1.75
24 to 30 ins.	2.25
Canadian Golden Depressa Juniper	
18 to 24 ins.	1.50
Greek Juniper	
18 to 24 ins.	1.25
Hetsi Glauca Juniper	
18 to 24 ins.	1.50

JUNIPERUS (Continued)

Canadian Golden Depressa Juniper	Each per 1000 rate
1-yr., field-grown, 6 to 8 ins.	\$0.15
2-yr., field-grown, XX, 6 to 8 ins.	.17 1/2
2-yr., field-grown, XX, 8 to 10 ins.	.20
Compact English Juniper (Improved English)	
1-yr., field-grown, 6 to 8 ins.	.10
1-yr., field-grown, 8 to 10 ins.	.12
1-yr., field-grown, 10 to 12 ins.	.14
2-yr., field-grown, XX, 10 to 12 ins.	.16
2-yr., field-grown, XX, 12 to 15 ins.	.18
2-yr., field-grown, XX, 15 to 18 ins.	.20
Compact Pfitzer Juniper	
1-yr., field-grown, 6 to 8 ins.	.12
1-yr., field-grown, 8 to 12 ins.	.16
2-yr., field-grown, XX, 8 to 10 ins.	.18
2-yr., field-grown, XX, 10 to 12 ins.	.20
Greek Juniper	
1-yr., field-grown, 6 to 8 ins.	.10
1-yr., field-grown, 8 to 10 ins.	.12
1-yr., field-grown, 10 to 12 ins.	.15
2-yr., field-grown, XX, 8 to 10 ins.	.14
2-yr., field-grown, XX, 10 to 12 ins.	.18
Hetsi Glauca Juniper	
1-yr., field-grown, 6 to 8 ins.	.10
1-yr., field-grown, 8 to 10 ins.	.12
1-yr., field-grown, 10 to 12 ins.	.15
2-yr., field-grown, XX, 6 to 8 ins.	.12
2-yr., field-grown, XX, 8 to 10 ins.	.14
2-yr., field-grown, XX, 10 to 12 ins.	.18
2-yr., field-grown, XX, 12 to 15 ins.	.22
Irish Fastigata	
1-yr., field-grown, 6 to 8 ins.	.08
1-yr., field-grown, 8 to 10 ins.	.10
1-yr., field-grown, 10 to 12 ins.	.12
1-yr., field-grown, 12 to 15 ins.	.15
1-yr., field-grown, 15 to 18 ins.	.17 1/2
Kiyonoi Juniper	
1-yr., field-grown, 8 to 12 ins.	.12 1/2
Polish Juniper	
1-yr., field-grown, 6 to 8 ins.	.08
1-yr., field-grown, 8 to 10 ins.	.10
2-yr., field-grown, XX, 6 to 8 ins.	.10
2-yr., field-grown, XX, 8 to 10 ins.	.12
Pfitzer Juniper	
1-yr., field-grown, 6 to 8 ins.	.11
1-yr., field-grown, 8 to 10 ins.	.16
1-yr., field-grown, 10 to 12 ins.	.18
2-yr., field-grown, XX, 6 to 8 ins.	.16
2-yr., field-grown, XX, 8 to 10 ins.	.18
2-yr., field-grown, XX, 10 to 12 ins.	.20
Swedish Juniper	
1-yr., field-grown, 8 to 10 ins.	.12 1/2
1-yr., field-grown, 10 to 12 ins.	.15
1-yr., field-grown, 12 to 15 ins.	.17 1/2
Savin Juniper	
1-yr., field-grown, 6 to 8 ins.	.08
1-yr., field-grown, 8 to 10 ins.	.10
1-yr., field-grown, 10 to 12 ins.	.12 1/2
Von Ehron Juniper	
1-yr., field-grown, 6 to 8 ins.	.10
1-yr., field-grown, 8 to 10 ins.	.12 1/2
1-yr., field-grown, 10 to 15 ins.	.15

Irish Juniper	
30 to 36 ins.	\$1.35
36 to 48 ins.	1.50
4 to 5 ft.	1.75
Polish Juniper	
18 to 24 ins.	1.00
24 to 30 ins.	1.25
Pfitzer Juniper	
15 to 18 ins.	1.50
18 to 24 ins.	1.75
24 to 30 ins.	2.25
Savin Juniper	
18 to 24 ins.	1.25
Von Ehron	
18 to 24 ins.	1.50
24 to 30 ins.	2.00
Cherry Laurel	
30 to 36 ins.	1.00
Gardenia	
Heavy, 24 to 30 ins.	1.00
Ligustrum Lucidum Compactum	
18 to 24 ins.	1.25
Nandina Domestica	
24 to 36 ins.	1.25

TERMS: 2% discount for cash with order. Free packing. Add 2c for each plant on orders of less than 250. C.O.D. orders must be accompanied by 25% of the purchase amount. A deposit of 25% will hold stock for fall and winter delivery. Prices F.O.B. nursery.

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FIELD-GROWN LINING-OUT STOCK

All stock grown in open field beds.

	Each	Each		Each	Each		Each	Each
	per	per		per	per		per	per
	100	1000		100	1000		100	1000
Azalea, Ghent (pontica).			Juniper, Andorra.			Pyraeantha coccinea inlandi		
5 to 8 ins., 3-yr. T.	\$0.25	\$0.20	6 to 8 ins., 1-yr. T.	\$0.28	\$0.25	8 to 12 ins., 2-yr. T.	\$0.32	\$0.30
8 to 10 ins., 4-yr. T.	.45	.40	8 to 10 ins., 2-yr. T.	.35	.30	12 to 15 ins., 3-yr. T.	.45	..
Azalea knempferi.			10 to 12 ins., 3-yr. T.	.45	.40	Pinus sylvestris (Scotch Pine).		
2-yr. T. field bed.	.28	.24	12 to 15 ins., 3-yr. T.	.50	.45	5 to 6 ins., 2-yr. T.	.04	.02
Azalea mollis (Chinese Azalea).			Juniperus glauca hetzi.			4 to 8 ins., 3-yr. T.	.05	.02½
6 to 8 ins., 2-yr. T.	.25	.20	6 to 8 ins., 1-yr. T.	.25	.20	(5,000 and up, less 5 per cent discount)		
8 to 10 ins., 3-yr. T.	.35	.30	8 to 10 ins., 2-yr. T.	.35	.30	Rhododendron catawbiense , purple-pink.		
10 to 12 ins., 4-yr. T.	.65	..	10 to 12 ins., 3-yr. T.	.45	.38	2-yr. field bed, T.	.22	.16
Azalea schlippenbachii (Royal Azalea).			12 to 15 ins., 3-yr. T.	.55	.45	Rhododendron maximum , light pink.		
2-yr. field bed, T.	.28	.25	Juniperus communis hibernica			2-yr. field bed, T.	.22	.16
3-yr. field bed, T.	.35	.32	fastigiata (Compact Irish			Rhododendron Hybrids , seed out of		
Buxus sempervirens welleri.			Juniper), improved variety.			red-blooming plants.		
6 to 8 ins., 2-yr. T.	.35	.32	8 to 10 ins., 2-yr. T.	.35	.30	2-yr. field bed, T.	.35	.32
8 to 10 ins., 3-yr. T.	.45	.40	10 to 12 ins., 2-yr. T.	.38	.33	3 to 5 ins., 3-yr. T.	.45	..
10 to 12 ins., 4-yr. T.	.65	..	12 to 15 ins., 3-yr. T.	.45	.40	5 to 8 ins., 4-yr. T.	.55	..
Chamaecyparis plumosa aurea.			15 to 18 ins., 3-yr. T.	.55	.50	(Sturdy center stems to multi-branched		
6 to 8 ins., 2-yr. T.	.35	.30	Juniperus pfitzeriana.			heads)		
8 to 10 ins., 3-yr. T.	.40	.35	8 to 10 ins., 2-yr. T.	.45	..	Rhus cotinus (Smoke Tree).		
10 to 12 ins., 3-yr. T.	.50	.45	10 to 15 ins., 3-yr. T.	.55	..	10 to 12 ins., 3-yr. T.	.18	.12
						12 to 18 ins., 3-yr. T.	.25	.20
						Taxus media hicksi.		
						8 to 10 ins., 2-yr. T.	.35	..
						10 to 15 ins., 2-yr. T.	.45	..
						Taxus cuspidata.		
						8 to 10 ins., 2-yr. T.	.35	..
						10 to 15 ins., 3-yr. T.	.45	..
						Thuja occidentalis douglasii aurea.		
						6 to 8 ins., 2-yr. T.	.35	.32
						8 to 10 ins., 2-yr. T.	.45	.42
						Thuja occidentalis elegantissima lutea.		
						golden tip over dark green foliage,		
						nonshedding.		
						6 to 8 ins., 2-yr. T.	.35	.30
						8 to 10 ins., 3-yr. T.	.40	.35
						10 to 12 ins., 3-yr. T.	.45	.40
						12 to 15 ins., 4-yr. T.	.55	.50
						15 to 18 ins., 4-yr. T.	.65	.60
						Thuja occidentalis globosa (Woodward		
						Globe Arborvitae).		
						6 to 8 ins., 1-yr. T.	.25	.20
						8 to 10 ins., 2-yr. T.	.35	.30
						10 to 12 ins., 3-yr. T.	.40	.35
						Thuja occidentalis pyramidalis.		
						12 to 15 ins., 3-yr. T.	.55	..
						Tsuga canadensis (Hemlock).		
						6 to 8 ins., 3-yr. T.	.25	.20
						8 to 10 ins., 4-yr. T.	.35	.30
						10 to 15 ins., 5-yr. T.	.45	..
						Viburnum opulus , red berries, fall.		
						10 to 18 ins., 3-yr. T.		
						cutback	.18	.12
						18 to 24 ins., 4-yr. T.	.25	.20
						cutback	.25	.20
						Viburnum opulus nana (Dwarf		
						Bush Cranberry).		
						2-yr. field, T.	.30	.25
						3-yr. field, T.	.40	..
						Lining-out Stock		
						25 at the 100 Rate.		
						300 at the 1000 Rate.		
						TERMS: Cash with order, otherwise		
						½ deposit with order and balance C.O.D.		
						Packing at cost. Payment in advance		
						earns free packing. All shipments by		
						railway express.		

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as many as six. All driveways should have good, thick coverings to hold up under daily heavy loads. Proper drainage, a good depth and a well-prepared base cannot be overlooked, either. Such items may not be the job of a landscape man, but they should be part of his thinking.

Walks are never too wide, and they should not be laid out so they look good from an airplane. They must be functional and follow the line of least resistance. Some universities let students walk where they will for a year or more, and then put black top walks in the lines used.

There is much more to be said about schools and their plantings, but this article and the preceding one on the subject should cause some reformation of thinking. The purpose

of a school and its staff is to instruct, and the appearance of the school landscaping should do the same. Students living in an environment of good things react by carrying desirable thinking to their homes and friends and later, possibly, to their jobs. Their jobs may be with landscape nurserymen!

SOUTHERNERS AT ASHEVILLE

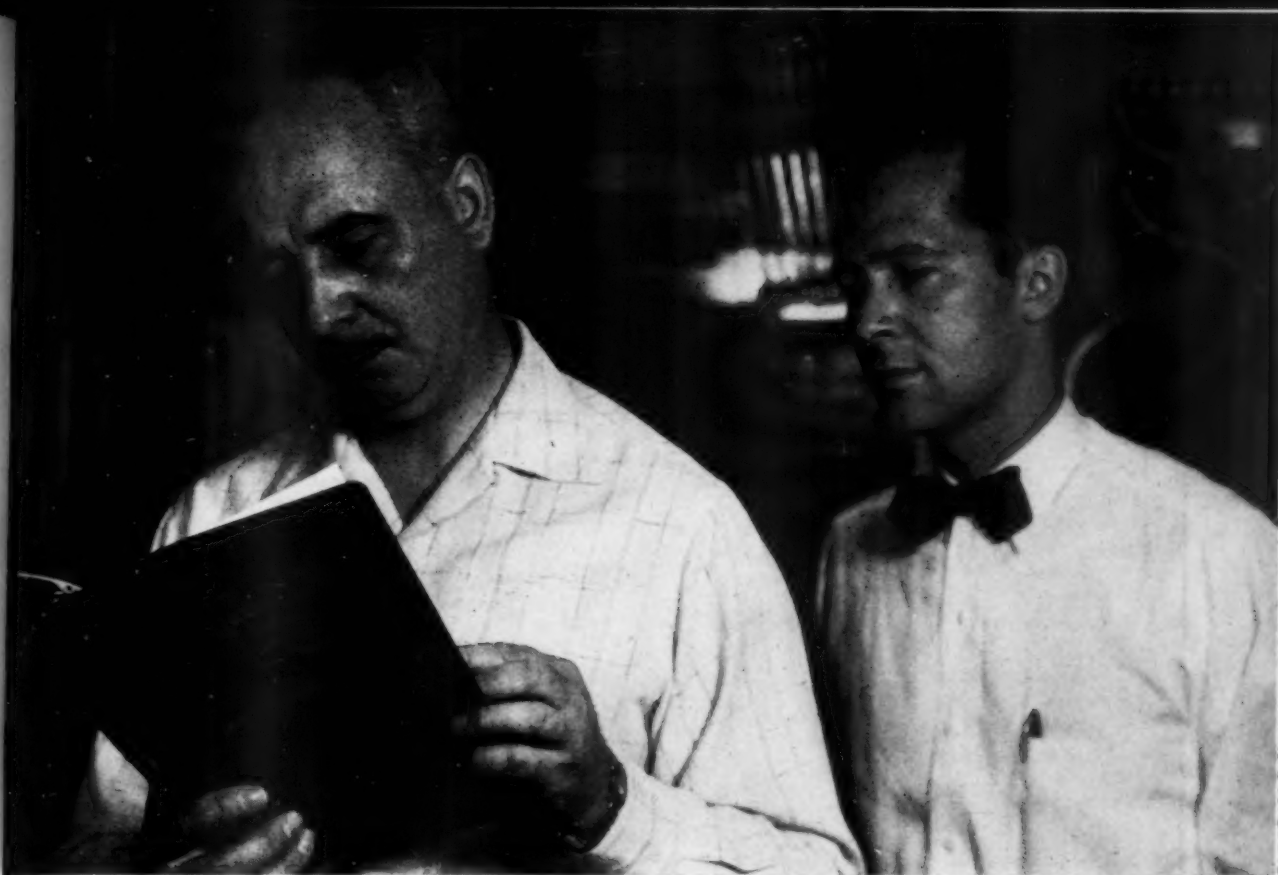
[Concluded from page 11]

The rest of the morning was given to discussions on trends in the nursery trade. "The Nursery Industry of Tomorrow" was the title of a talk by State Senator Edwin G. Fraser, of Florida. The nurserymen heard much of interest also in a panel dis-

cussion, led by Henry C. Boyd, McMinnville, Tenn., on the following topics: "Nursery Trends," "Taxes," "Production," "Can Production" and "Management." On the panel board were Edwin Fraser; Donald Hastings, Atlanta, Ga.; C. Norwood Hastie, Charleston, S. C.; David Laird, Richmond, Va.; W. C. Daniels, Charleston, S. C.; and Harvey Templeton, Signal Mountain, Tenn.

R. G. BLUMQUIST has just leased the Cottage Rose Garden, 1269 South High, Columbus 6, O.

RUTH MOORE, 815 Richmond street, Macon, Ga., is opening a small nursery, including a greenhouse, which will be called Ruth Moore's Nursery.



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With a copy of "ABC's of Lawn Preparation and Maintenance" in your store, you will become the "answer man" of your neighborhood on lawn problems. This book has been written for *you* and your lawn department by the Whitney Seed Company in collaboration with Geoffrey S. Cornish, top-ranking lawn authority.

"ABC's" makes the ideal reference for sales people and customers. It gives the latest information on hundreds of common lawn questions and even on building a home putting green. Tougher questions can be answered by referring to color illustrations of weeds, pictures of different grasses and garden tools, charts on weed control and use of insecticides.

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IMPORTANT NOTE: This store identification sign will be promoted in every Whitney consumer ad next spring. Use it in your window or door. It identifies *you* as a Whitney dealer to your prospects. Be sure to order it as part of your spring promotion package when your Whitney representative or distributor salesman calls.

LINERS

2 1/4-in. pots, except where noted. *Bed-grown.

	Each per	Each per
Azalea	100	1000
Flame	17 1/2c	15c
Indica alba	17 1/2c	15c
Lady Lilac	17 1/2c	15c
Purple King	17 1/2c	15c

15000 *Poukhanensis*, 4 to 8 ins.

Grown in soil in flats—ship flat and all—or knock out, ship bare-root.
Special price.....8c each

Berberis		
Candidula	22 1/2c	20c
Julianae	22 1/2c	20c
Triacanthophora	22 1/2c	20c
Coloneaster		
Francheti, 5 to 8 ins.	20c	18 1/2c
Repens (horizontalis), 6 to 8 ins.	17 1/2c	15c
Salicifolia, 5 to 8 ins.	20c	18 1/2c
Cryptomeria japonica lobbi		
6 to 8 ins.	30c	
8 to 10 ins.	40c	
Euonymus		
*Alatus compactus, 5 to 8 ins.	15c	12 1/2c
Patens sieboldianus, 8 to 10 ins.	17 1/2c	15c
Pulchellus	17 1/2c	15c
Ilex (Hollies)		
Cassine angustifolia, 5 to 8 ins.	20c	17 1/2c
Cassine myrtifolia, 5 to 8 ins.	20c	17 1/2c
Comuta burfordi, 6 to 8 ins.	20c	18 1/2c
Crenata microphylla, 5 to 8 ins.	20c	18 1/2c
Crenata convexa	18 1/2c	17c
Crenata rotundifolia	20c	18 1/2c
Opaca (Cuttings from choice berry stock), 6 to 8 ins.	35c	32 1/2c
Opaca East Palatka	30c	27 1/2c
Vomitorea	25c	22 1/2c
Juniperus		
Excelsa stricta	20c	18 1/2c
Squamata meyeri	20c	12 1/2c
Sylvestris	Spec. 12 1/2c	
Osmanthus		
Aquifolium	20c	18 1/2c
Fortunei	20c	18 1/2c
Fragrans	20c	18 1/2c
Thuja (Arborvitae)		
American nigra compacta	20c	18 1/2c
Bakeri	20c	18 1/2c
Pyramidalis, 6 to 8 ins.	20c	18 1/2c
Globosa (woodwardi), 6 to 8 ins.	20c	18 1/2c
Viburnum opulus sterile , 6 to 8 ins.		8c



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R. F. D. 9

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ELM DISEASE STUDY GAINS

In the past 20 years, Dutch elm disease has come to be the most serious disease of elm trees in this country. Some success in its control has been achieved by scientists at the University of Rhode Island, Kingston.

Last month a patent on a chemical control of the disease and method of applying it was issued to Drs. A. C. Tarjan and F. L. Howard, plant pathologists at the university, and Dr. J. F. Hosler, chemist for the American Cyanamid Co. However, the chemical is not at present being manufactured, and the scientists are not recommending its use. It has not been consistent enough in its action to warrant such recommendation, they feel.

Application for the patent was made over a year ago, based on a successful series of tests conducted at the university in 1953. Further work in 1954 and this year has produced inconsistent results, and the researchers are not yet sure why. The work with this chemical and several other promising materials is continuing. Experiments to determine how the complex mechanism of the disease functions are also under way.

Application Technique

The patented method of application appears to be the most practical method yet found of getting disease-control chemicals inside a tree. It consists of boring a series of holes into the sapwood on a tangent to the circumference of the tree. The holes are bored in an ascending spiral, so that no hole is directly above another. Two holes are bored into the tree from a single opening in the bark. The chemical to be added is mixed in paste form and holes are filled either by tamping or with a caulking gun. The holes are then corked, and a protective coating of grease is applied. The holes can be opened and refilled when necessary.

The scientists believe that this method will be useful in control not only of Dutch elm disease, but many other vascular wilt diseases of trees as well.

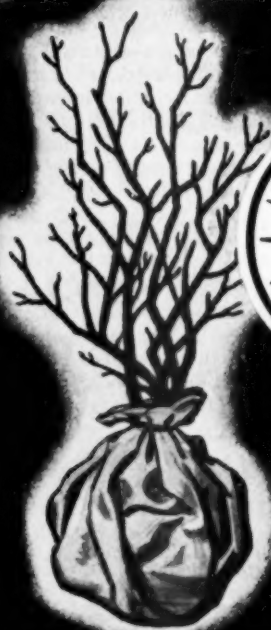
GIRVIN PRINGLE, Florida Nursery & Landscape Co., Leesburg, Fla., president of the Florida Nurserymen and Growers Association, will address the members of the Florida Home Builders' Association at their convention at Tampa October 21. Mr. Pringle will talk on landscaping the contemporary Florida home.

New M-J Poly-coated wrap cuts shipping costs up to 50%!



PROTECTION-PLUS . . . a uniform gauge polyethylene coating. No weak spots, no dangerously low areas.

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Packed in M-J Polyethylene Coated Kraft



Packed in Moss and Asphalt Laminated Paper.

Lightweight, low-cost M-J Nursery Wrap retains moisture, eliminates need for heavy moistened packing material

More and more nurserymen across the country have been shipping stock in polyethylene coated paper with excellent results.

The lightweight, low-cost M-J Polyethylene Coated Nursery Wrap retains the original moisture. The need for heavy moistened packing materials has been eliminated.

Without heavy asphalt laminated paper, shingletow, peat or sphagnum moss, shipping and parcel post costs have been cut way down . . . as much as 50% in certain cases.

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You'll make spectacular savings on shipments of rose bushes, delphinium, strawberries, perennials, evergreens, and most types of nursery stock. What's more, you'll reduce customer complaints, because your stock arrives in good condition.

Get more information on how to ship the modern way . . . package with new M-J Polyethylene Coated Nursery Wrap. It's made by McLaurin-Jones Company, one of the country's largest suppliers of polyethylene coated paper. AVAILABLE IN ROLLS OR SHEETS, ALL SIZES AND WIDTHS, PLAIN OR CREPED. 40, 50 and 60 LB. KRAFT WITH POLYETHYLENE COATINGS FROM 1/2 MIL UP. See your local paper merchants or nursery house. Or write us direct for free samples.

M-J NURSERY WRAP

Container Nursery Stock in California

By Vernon T. Stoutemyer

The California nursery industry is in an unusual period of expansion. For several years retail nursery sales in the state have been around 100 million dollars annually. Great shortages now exist in many kinds of specimen plants, especially in the larger sizes, and a number of nurseries have considerable difficulty in retaining sufficient small stock to produce the larger sizes. This unusual volume of business is a natural result of the unprecedented growth of population in the state since World War II.

Probably this migration of population is only partly responsible, since many new local outlets have been developed for nursery products. For instance, some of the new factories have landscape plantings which would do credit to a lavish country estate. In homes, factories, offices, stores and hotels there has been a remarkable increase in the use of interior areas planted with green foliage plants. The garden club movement and amateur interest in gardening continue to grow as the work week shortens and leisure increases. All of these factors create new markets for plants.

Probably the nursery business of Texas will experience a similar cycle of development. One man who is versed in industrial resources states that Texas can easily build an enormous industrial empire and that when Texans become aware of this they will burn the natural gas which they now send elsewhere.

Field Culture Costly

Two important segments of the nursery business in California are on a field production basis. These are fruit tree growing and rose production. However, most evergreen ornamentals are grown in containers, and some deciduous nursery stock produced in fields is marketed in containers. An occasional nursery produces certain coniferous evergreens in field culture or azaleas and camellias in specially prepared beds under lath. Nurseries which have experimented with field systems of production on most items have

Talk entitled "The Production and Distribution of Container Nursery Stock in California," given at the convention of the Texas Association of Nurserymen at Tyler last month by Vernon T. Stoutemyer, chairman, department of floriculture and ornamental horticulture, University of California at Los Angeles.

usually been forced to return to the use of cans, because of high land and labor costs, a situation which may not apply in many other sections of the country.

One great advantage of containers is that the planting season is extended. Each year in California large numbers of deciduous trees and shrubs and roses of all kinds are placed in containers for sale during the rest of the growing season. Probably this possibility is the reason why container growing is arousing the interest of nurserymen in other sections of the country. Unquestionably, the seasonal nature of the nursery business in the past has been a serious economic handicap everywhere.

Container nursery stock can also often be sold in bloom, which unquestionably enhances the sales appeal. Container stock need not be planted immediately. An additional sales possibility is that many items make attractive gift or remembrance plants, especially while they are in bloom. The ready availability of virtually the complete range of nursery

stock for planting at any time of the year is conducive to a large participation in gardening.

Disadvantages

The system of container growing is not an unmixed blessing to the consumer, for there are certain disadvantages. If nursery stock is not sold in a reasonable length of time, pot binding or formation of girdling roots will occur, resulting in subsequent slow growth. Some plants seem to be much more resistant to this type of injury than others. Probably an even more detrimental effect can come from the serious root restriction which can occur in liner stock that is kept too long in small pots. One excellent camellia grower, now retired, made a point of growing his lining stock in long special bottomless containers to prevent root restriction.

Bargain sales of container stock at excessively low prices are often nothing more than the disposal of badly overgrown and pot-bound stock. An active but small unchecked container

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Pinus mugo, true dwarf type, beautiful specimens, 24 to 48 ins. Purchaser to dig.

Rosa multiflora japonica, seedlings, 1-yr.

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ORNAMENTALS**



Now, a completely new kind of non-burning fertilizer compound . . . BORDEN'S 38® saves time, labor and money! One application is all you need . . . "one-shot" provides a steady supply of nitrogen throughout the entire growing season and continues to release nitrogen from 6 to 12 months.

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Derived from urea-formaldehyde, new BORDEN'S 38 has a guaranteed analysis of 38% nitrogen. Yet, pound for pound the cost of the nitrogen in

BORDEN'S 38 usually costs no more than the organic forms which contain 3 to 7 per cent nitrogen! And look at the other important savings you get with BORDEN'S 38:

- Costs less to ship—you save on freight.
- Costs less to store—one bag replaces several bags of ordinary fertilizer in nitrogen content.
- Stays dry and free-flowing—no loss from moisture absorption.
- Won't leach or wash away—saves replacement costs.
- Easier to carry on the job—saves trucking and labor.
- Lasts all season—saves cost of side and top dressing.

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<i>Abies balsamea</i>	12 to 14 ft.
<i>Albizia julibrissin rosea</i>	2 to 5-in. caliper
<i>Azalea calendulacea</i>	6 to 8 ft.
<i>Azalea poukhanensis</i>	5 to 6-ft. spread
<i>Cercis canadensis</i>	8 to 14 ft.
<i>Cornus florida</i>	10 to 18 ft.
<i>Cotoneaster divaricata</i>	4 to 5 ft.
<i>Chamaecyparis filifera aurea</i>	5 to 7 ft.
<i>Chamaecyparis obtusa crippei</i>	7 to 9 ft.
<i>Chamaecyparis obtusa nana</i>	3 to 5 ft.
<i>Fagus sylvatica</i>	2 to 5-in. caliper
<i>Franklinia altamaha</i>	8 to 10 ft.
<i>Halesia tetraptera</i>	12 to 14 ft.
<i>Ilex crenata</i>	7 to 10 ft.
<i>Ilex opaca</i>	6 to 9 ft.
<i>Magnolias</i> , in variety	8 to 10 ft.
<i>Picea glauca conica</i>	5 ft.
<i>Picea glauca densata</i>	12 to 16 ft.
<i>Picea engelmanni</i>	8 to 12 ft.
<i>Picea omorika</i>	9 to 11 ft.
<i>Picea pungens</i>	12 to 16 ft.
<i>Pin Oak</i>	1½ to 7-in. caliper
<i>Pinus flexilis</i>	5 to 7 ft.
<i>Pinus strobus fastigiata</i>	12 to 18 ft.
<i>Pinus strobus nana</i>	3 to 5-ft. spread
<i>Pinus strobus pendula</i>	12 to 14 ft.
<i>Pinus thunbergi</i>	8 to 14 ft.
<i>Prunus newportii</i>	5 to 9 ft.
<i>Red Oak</i>	2 to 5-in. caliper
<i>Rhododendron hybrids</i>	6 to 8 ft.
<i>Rhododendron maximum</i> , clumps, approximately 15 canes	5 to 8 ft.
<i>Stewartia pentagyna</i>	8 to 10 ft.
<i>Sweet Gum</i>	2½ to 8-in. caliper
<i>Taxus browni</i>	5 to 6 ft.
<i>Taxus capitata</i>	5 to 8 ft.
<i>Taxus hicksii</i>	5 to 8 ft.
<i>Taxus repandens</i>	3 to 5-ft. spread
<i>Tsuga canadensis</i>	5 to 11 ft.
<i>Tsuga caroliniana</i>	5 to 9 ft.
<i>Tsuga fremdi</i>	6 to 8 ft.
<i>Tsuga sargentii</i>	3 to 4-ft. spread
<i>Viburnum carlesii</i>	2 to 6 ft.

65 acres of choice landscape material. Established 38 years. Send us your want list for quotation.

BLOOMER'S NURSERY & GARDEN CENTER

FLEMINGTON, N. J.

Phone: Flem. 155

Rt. 69—5 miles north of Flemington

SHADE TREES

Nursery-Grown

We have available some of the Best Crown Trees in the East, in large quantities.

QUERCUS palustris , 3 to 3½-in. and 4 to 5-in. cal.
GLEDITSIA triacanthos , 3 to 3½-in., 4 to 5-in., 5 to 6-in. and 8 to 8-in. cal.
PLATANUS acerifolia , 2 to 2½-in., 2½ to 3-in. and 3 to 3½-in. cal.
ACER platanoides , 2 to 2½-in. and 4 to 5-in. cal.
ACER saccharum , 2 to 2½-in. cal.
PINUS nigra , 4 to 5 ft. and 5 to 6 ft.
PINUS resinosa , 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.
PINUS strobus , 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.
MALUS in variety, 6 to 8 ft., 8 to 10 ft. and 10 to 12 ft.
FRENCH HYBRID LILAC , 4 to 5 ft.
TAXUS hicksii , 18 to 24 ins.

For quotations mail us your Want List
Your Inspection Invited

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GARDINER, NEW YORK
Telephone: New Paltz 8485

TAXUS

Excellent quality. For fall shipment. Car and trailer loads only, with Japanese Beetle Certificate.

<i>Taxus capitata</i> (upright Yew)	Each
3 to 3½ ft.	\$6.75
3½ to 4 ft.	8.00
4 to 4½ ft.	9.50

<i>Taxus cuspidata</i> (spreading Yew)	
1½ to 2 ft.	4.00
2 to 2½ ft.	5.25

<i>Taxus hicksii</i> (Hicks Yew)	
2 to 2½ ft.	4.00
2½ to 3 ft.	5.00

Larger sizes up to 4½ ft.
Also *Taxus hatfieldii*, *Taxus intermedia*, *Taxus Vermeulen* and others.
Write for complete list.

BULK'S NURSERIES

610 West Montauk Highway
BABYLON, N. Y.

plant will often outperform a badly checked plant in a larger size. Unfortunately, this type of damage is not easy to detect unless the root systems of the plants are examined. Pot-bound nursery stock may have effects which are long delayed. The blowing over of sizable trees can often be traced to early root restriction.

Container growing is often the final utilization of plants. Many containers of a highly ornamental nature are available. Gardening in movable containers fits many indoor and outdoor situations, both in sun and in shade, especially on patios and terraces. Modern architectural design increasingly provides for large built-in planting containers or boxes. These have many advantages for easy maintenance and highly effective display of plants.

Container Preparation

The salvage and preparation of metal containers is a highly specialized operation conducted by specialist firms. These firms collect cans from large restaurants, bakeries and nut-importing firms on a regular schedule, usually paying the person responsible for accumulating the cans. The cans are taken to the place of preparation where they are cleaned and retrimmed if necessary, to smooth out any sharp edges which might cut hands. Drainage holes are punched simultaneously by a special press. This operation has been mechanized cleverly, and conveyor belts are used.

The dipping vats are heated by gas flames. Ordinary asphaltum, to which some paint thinner is added, is used. Naturally there is some fire hazard. The containers are held by the bottoms, and usually no attempt is made to coat this part, since experience has shown that the part of the container vulnerable to rusting out is at the soil line. The cans are then slid on a tilted rack with the open end lowest to dry, which permits the salvage and re-use of the drippings. Loading conveyers are used to place the completed cans on delivery trucks. The operation is conducted on a year-round basis. In the slack seasons supplies are stockpiled for times of greater activity.

Probably four fifths or more of all the container stock sold is in No. 10, or so-called gallon cans. The 5-gallon can, for most classes of plants except for trees, has been superseded in the past few years by the 3-gallon, or egg can, obtained from bakeries. The latter size takes much less soil and is lighter to ship and handle and will grow stock prac-

BIRD PERENNIAL POTS

Now you can get

Tough **CONSTRUCTION—**
at *Less Cost!*

TOUGH AS, OR TOUGHER THAN POTS MADE OF HEAVIER MATERIAL— Bird Perennial Pots have a hard coating, inside and out, that adds to their durability and resistance to handling hazards.

SOLID STAPLED BOTTOM— Bird Perennial Pots are constructed with a solid stapled bottom which prevents loss of plants in handling. This bottom is carefully designed with openings to insure proper drainage.

LOWER LANDED-COST— Most important, too, is the freight factor which in some cases will equal the cost of the merchandise. Proximity to your source of supply will result in a substantial lower delivered cost. The Bird distributor in your area makes this lower landed-cost possible.

LONGER SELLING SEASON— Bird Perennial Pots lengthen your selling season, too, from three months to five months—plus giving you the opportunity to display your plants at the very peak of their bloom . . . a big merchandising advantage.

Ask your nearest distributor for detailed information and low delivered prices on this latest advance in nursery sales technique, or write us direct, Bird & Son, inc., Horticultural Dept., East Walpole, Mass., Dept. AN-9A.

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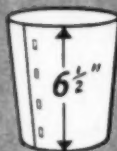


Height 5"

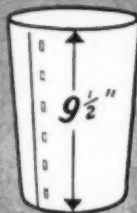
Recommended sizes of Bird Perennial Pots for perennials, bulbs, and shrubs*



Aconitum
Ajuga
Alyssum
Canterbury Bells
Carnations
Columbine, etc.
Delphinium
Lily of the Valley
Narcissus
Phlox
Saxatile Compactum
Shasta Daisies
Small Mums



Aquilegia
Asters
Astilbe
Boston Ivy
Centaurea
Chrysanthemums
Clematis, etc.
Day Lilies
Honeysuckle
Iris
Oriental Poppies
Roses (1 1/2 "Junior")
Silver Lace
Small Lilies



Azaleas
Bleeding Heart, etc.
Camellias
Daphne
Delphinium
Easter Lilies
Gardenias
Gypsophila
Hydrangeas
Large Mums
Lupine
Peonies
Roses: Hybrid Teas
Floribundas
2-yr. Climbers
Thermopsis
Tree Geranium
Water Lilies
Yucca

*These are only a few of the many varieties of perennials, roses, bulbs, vines and shrubs that can be potted in Bird Perennial Pots.

BIRD

BIRD & SON, inc.
Established 1895

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VITA-M POTS • RED POTS • PERENNIAL POTS

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins., clumps	\$4.00	\$35.00
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00

<i>Ilex verticillata</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	6.00	50.00

SUGAR MAPLES		
	Unit price in quantities	
	10 to 50 to	
	49 250	
<i>Acer saccharum</i>		
1 1/4 to 1 1/2-in. cal.	\$ 4.00	\$ 3.50
1 1/2 to 1 3/4-in. cal.	6.00	5.00
1 3/4 to 2-in. cal.	7.00	6.00
2 to 2 1/4-in. cal.	9.00	8.00
2 1/4 to 3-in. cal.	12.00	11.00

CLUMP BIRCH		
	Per 10	Per 100
<i>Paper Birch</i>		
4 to 6 ft.,		
3 stems and up	\$30.00	
6 to 8 ft.,		
3 stems and up	40.00	
<i>Gray Birch</i>		
4 to 6 ft.,		
3 to 6 stems	25.00	\$200.00
6 to 8 ft.,		
3 to 6 stems	35.00	250.00

All stock is first-quality collected material except as otherwise noted. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

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EXETER, N. H.

<i>Azalea mollis</i> , Orange and red, 4-year, transplanted seedlings, 6 to 10 ins.	\$0.45
<i>Cotoneaster dielsiana</i> , bare-root, 18 to 24 ins.	.75
<i>Cotoneaster divaricata</i> , bare-root, 18 to 24 ins.	.75
<i>Thuja occidentalis pyramidalis</i> , B&B, 3 to 4 ft.	2.50
<i>Viburnum carlesii</i>	
2-year seedlings, transplanted, 12 to 18 ins.	.75
2-year grafts, transplanted, 18 to 24 ins.	1.25
4-year grafts, twice transplanted, B&B, 18 to 24 ins.	1.75
4-year grafts, twice transplanted, B&B, 2 to 3 ft.	2.00

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The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants, grown in outside soil frames: \$4.25 per 100, prepaid; \$38.50 per 1000; \$36.50 per 1000 for 10,000 or more in same shipment. Available for prompt shipment—late March through November. Shipments anywhere. Good packing free.

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Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft.
4000, all transplanted.

RED LAKE CURRANTS

Assortment of Large-size Plants
for Landscaping Planting

Having sold land, will clear this fall.

Inspection and Correspondence Invited.

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Box 158
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EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

tically as large in the same time with proper feeding. Aside from the three standard sizes, several odd-size containers between the 1 and 3-gallon sizes are coming into limited use. Old metal or wooden barrels and boxes of many types are used for growing larger trees.

Tapered Cans

The pressed and crimped tapered gallon can is likewise prepared from salvage cans and has been well received, both by propagators and by nurseries for customer sales. The container can be painted attractively, thus adding much to the appearance of a nursery salesyard. It nests closely, saving space. Shifting to a larger size is easy, since the plants knock out readily without cutting the cans. As many as three crops have been grown in one set of cans by one local propagator, for shifting on to larger containers.

Paper containers are little used. Plastic and aluminum foil are being tried for small-size pots. The large bedding plant industry of southern California is based on the standard 18-inch square wooden flat, but is adopting more of the small package containers of aluminum foil, wood veneer or molded asphalt, usually containing about a dozen plants. These save the time of salesmen and are useful for self-service.

There is little uniformity in the system of shifting from liners to the containers in which the plants are eventually sold. Liners sold by jobbers are often in flats, but in most production nurseries they would be potted in 2 1/2 or 3-inch pots. Some growers would move these plants to gallon cans, but others shift to a 4-inch pot and then move to an egg (3-gallon) can. Lath houses or shaded frames are much used for liners. The time schedule varies greatly with different plants. On the average, a liner taking more or less of a growing season to produce will take another season to make a gallon can and another to move on to a 3 or 5-gallon can.

Canning Machines

Several types of canning machines have been tried. Basically, these units consist of a mechanically operated tamper for firming the soil in a central hole in a container filled with soil. Not all of these have been entirely successful. The primary problem is that of an assembly line in which the cans are filled with soil automatically and, after the appropriate-size hole is made by the tamper, the liners are placed in the holes. Small electric or gasoline-powered trucks have been used to speed up

Malathion controls:

Aphids
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 Black scale crawlers
 Pine needle scale
 Oyster shell scale
 Juniper scale
 Fletcher scale
 Bagworms
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Now!

**for practically all
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... one insecticide

MALATHION

Called "one of the safest insecticides to handle" by the USDA, malathion is the first phosphate insecticide to combine high insect toxicity with low mammalian toxicity. Compatible with most other spray materials.

You profit 2 ways

- 1 ... by simplifying your own insect control problems.
- 2 ... by selling malathion insecticides to your customers ...
 for malathion will solve practically all *their* garden insect problems.

Write today for complete information on use of malathion on ornamentals. Ask for MALATHION GROWER'S HANDBOOK.

Consult your regular sources of supply for malathion insecticides, packaged by well-known manufacturers under their own brand names. Or write us for suppliers' names.

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P.S. Malathion kills flies, too!

Specimens of ORNAMENTAL ARISTOCRATS

For that extra-line job, we offer our excess stock plants. As such they have received the best of care and are extremely full and compact. We sincerely invite your inspection or inquiry. Varieties are advertised in the August 15 issue. In addition we offer quantity cash discounts up to 10 per cent. A price list is yours for the asking. Also available—our new FINER LINER catalog.

JOHN VERMEULEN & SON, Inc.

THE HOME OF "FINER LINERS"

NESHANIC STATION, N. J.

FOXcroft 9-5211

the movement of nursery stock about the nursery.

Although potted liner stock is usually carried in lath houses, most container stock is grown outdoors in full sun—arranged in 6-foot beds with aisles. The exceptions would be in the case of plants needing shade, such as fuchsias or camellias. Sometimes trees such as carobs are grown under lath in order to obtain extra height of the central leader as rapidly as possible.

Watering

If watering is not done correctly, serious difficulties with excessive salt accumulation can arise. This problem most often appears if the soil in the container is wet thoroughly but not sufficiently to provide some leaching each time watering is done. With evaporation and absorption of water, salt accumulation is inevitable in the course of time with incorrect watering. As in most arid regions, water quality is often not ideal and soils are often overly rich in minerals.

Systems of subirrigation have been tried, but are hazardous from the standpoint of spread of diseases and pests and accumulation of salts. Sprinkler watering systems have been used to save labor, but have not always been successful where many different kinds of nursery stock with widely different water requirements are grown in a small space. In such cases the use of the hose has been reintroduced, in spite of the greater labor cost. Some supplementary watering with a hose is often needed with sprinkler systems. Further development of automatic water systems is needed in order to save labor.

Soil and Sanitation

Obtaining suitable soil for container growing has been a major

READY NOW

	Per 100	Per 1000
Cornus Florida,		
S., 1-yr., grafting size....	\$ 7.50	\$50.00
S., 1-yr., below grafting....	5.00	40.00
Ampelopsis veitchi (Boston Ivy)		
S., 1-yr., No. 1.....	7.50	60.00
S., 1-yr., No. 2.....	5.00	35.00
California Privet		
1-yr., R.C., 12 to 18 ins....	5.00	45.00
2-yr., R.C., 18 to 24 ins....	7.50	60.00

Free packing for cash with order.

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Box 25 NEW LONDON, CONN.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

FALL SURPLUS

	Each
50 <i>Carpinus betulus fastigiata</i> , 5 to 6 ft.....	\$6.00
40 <i>Laburnum vossii</i> , 6 to 8 ft., 3-yr.	5.00
50 <i>Maackia amurensis</i> , 3 to 4 ft.	1.50
50 <i>Pieris japonica</i> , 15 to 18 ins....	2.00
20 <i>Prunus serrulata amanogawa</i> , 6 to 8 ft., 3-yr.	5.00
50 <i>Prunus subhirtella pendula</i> , 3-yr.	6.00
200 <i>Taxus</i> , 16 to 24 ins., you dig.	

Cash with order.

BRIMFIELD GARDENS NURSERY

245 Brimfield Rd.
WETHERSFIELD 9, CONN.

LINING-OUT TAXUS

4-yr., XX, field beds, for fall

	Each
Hatfieldi, 10 to 15 ins.	\$0.60
Hatfieldi, henryi, cliffoni, cuspidata spreading and Vermeulen, 9 to 12 ins. ....	.50
Net in lots of 25. 10% discount for 250 assorted.	

Free packing for cash with order.

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One of the most complete collections of the better named varieties of American and English holly. 3 to 6-inch pots. Send for list.

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MILFORD DELAWARE

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Taxus, Ilex and other Ornamentals.

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Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

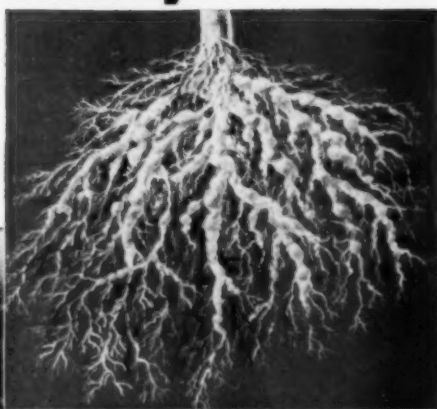
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Both evergreens and deciduous in liners and finished materials. Fall list now ready.

FAIRVIEW EVERGREEN NURSERIES

FAIRVIEW, PA.

Amazing new discovery **DESTROYS NEMATODES!**



NEW V-C 13 NEMACIDE

**protects growing
trees and shrubs**

Now—at the first sign of nematode infestation—you can protect your nursery plantings from these tiny, threadlike worms with powerful new V-C 13 Nemacide. You no longer have to destroy infested trees, plants and shrubs, nor do you have to fumigate with old-style products that kill the

plants also. Use V-C 13 now: tests have shown it has killed nematodes without harming growing plants.

New V-C 13 is the ideal nemacide for ornamental trees, shrubs and grass. One application of this powerful phosphorus compound in the soil around the roots kills nematodes and provides residual control that helps avoid reinfestation. Improve the growth of your nursery plants, and boost customer satisfaction too, with new V-C 13 Nemacide. Write for details now.

FILL IN THIS COUPON FOR FULL INFORMATION

NOW



Now available in three handy sizes: 1-quart bottle (2½ lbs.); 1-gallon jug (10 lbs.); 5-gallon drum (50 lbs.). Each gallon treats 800 to 1600 square feet of nursery plantings.

Virginia-Carolina Chemical Corporation
401 East Main Street, Richmond 8, Virginia

Please send me literature and prices on
new V-C 13 Nemacide.

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QUEEN O' the LAKES

(Dark
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and 30 other fragrant

SUB-ZERO HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

Also 20

Yellow and Orange Climbers

Also Florabundas and Grandifloras. Also many varieties of our new race of everblooming climbers which we call Everblooming Pillars. These bloom the first year like Hybrid Teas and on all stems and canes the year they grow; large Hybrid Tea blooms in great quantity.

These Roses have been honored by some of the leading Distinguished Service Medals.

Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.

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|---------------------------------------|--------|
| 20 Abelia grandiflora, 8-yr., | Each |
| 4 to 5 ft., bushy | \$4.50 |
| 30 Juniperus pfitzeriana, 3 to 4 ft. | |
| spread | 4.50 |
| 30 Juniperus stricta, 3 to 4 ft., | |
| heavy | 4.50 |
| 40 Retinospora lawsoniana allum. | |
| 4 to 5 ft., heavy | 4.50 |
| 40 Taxus hicksii, 4 to 5 ft., heavy | 7.50 |
| 300 Assorted Flowering Shrubs, 6-yr., | |
| 4 to 6 ft., B.R., heavy | 1.00 |
- All plants dug by you, or we will dig, plus 20%.

- | | |
|--------------------------------------|------|
| 50,000 California Privet, 2-yr., | Each |
| 18 to 24 ins. | .5c |
| California Privet, 2 to 3 ft. | .7c |
| 25,000 Barberry, green, 9 to 12 ins. | .4c |
| Barberry, 3-yr., 12 to 18 ins., | |
| not transplanted | .5c |
- Minimum 500

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SPECIAL SALE 25 Per Cent Off

Nursery-grown • Excellent Stock

French Hybrid Lilac, 4 to 5 ft.

Malus in variety, 6 to 8 ft., 8 to 10 ft. and 10 to 12 ft.

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Seedling grown.

2, 3 and 4-yr. transplants

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Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

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Send us your Want List.

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Rhododendron—Kalmia
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We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES

NEWFANE, N. Y.

problem and is constantly becoming more expensive. Large nurseries may purchase an entire farm and remove the topsoil for nursery purposes. Soils which compact readily and which do not provide good drainage have always caused great difficulty in container growing. If soil mixes are to be steam-sterilized, the problem becomes even more complicated, since elements may be released in some materials which cause undesirable effects. This problem has been investigated since 1941 by several members of the department of plant pathology at the University of California at Los Angeles—Dr. Kenneth Baker, Dr. Donald Munnecke and Philip Chandler. Beginning with the idea of creating a simple, standardized mix for many different kinds of plants, these investigators finally evolved a type of soil mix which uses uniform materials easily and widely available. The physical components are a fine sand or a loamy sand, often available as a waste product from building materials companies, and peat moss. The proportions of each may be varied from 0 per cent to 100 per cent, according to the requirements of cost, weight and adaptability to the particular crop, but often about 25 per cent peat by volume will be used.

The requirements of the soil component are that it should not exceed 12 to 15 per cent coarse sand (and preferably this should be less); it should not have less than 70 per cent fine sand (and preferably this should be 85 per cent or higher), and the silt-plus-clay fraction should be under 15 per cent. The last-named requirement is particularly important in order to prevent cementing action.

Various chemical components, including dolomitic lime, hoof and horn meal, potassium nitrate, potassium sulphate and double superphosphate, may be added initially in small quantities. However, if the plants are to be grown for any appreciable length of time, regular additions of nutrients, either in dry or liquid form, will be necessary.

The peat and sand mixtures have good physical properties and will grow good plants, but require frequent and regular application of nutrients. Recent studies on physical characters of many different kinds of soil mixtures by Dr. O. R. Lunt, of the department of irrigation and soils at U.C.L.A., have shown good possibilities for some of the new chemical types of soil conditioners which may permit the utilization of finer-textured soil types which may be more easily available.



The Super 55 offers diesel or gasoline engine. Equipment shown is Oliver 1000-pound loader and Danuser 3-point hitch blade.

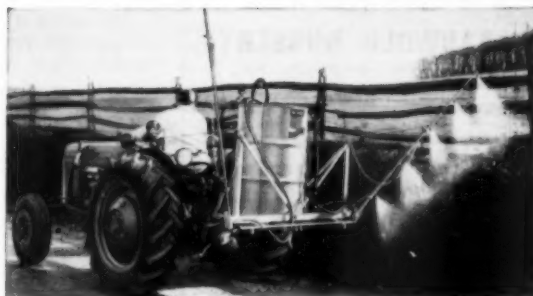
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Here is the Super 55 with 3-point hitch Oliver Iron-Age weed sprayer. Oliver also offers many other mounted and pull-type sprayers.



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All items noted below can be safely transplanted into beds now

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One of the new varieties of Japanese Holly in great demand. It has small, shiny, convex leaves. Grows rapidly at first, then slows down. Shears well. It can be used in sun or shade and contrasts well with both broad-leaved and narrow-leaved evergreens. It makes the finest low evergreen hedge. Easy to grow and faster than Yew. Sells on sight.

6 to 8 ins., 2-yr., T.....	Per 100
8 to 10 ins., 2-yr., T.....	\$15.00
	20.00

AZALEA Hindogiri	Per 100
3 to 6 ins., 1-yr., T.....	\$15.00

BOXWOOD, English , 3 to 4 ins.	10.00
---------------------------------------	-------

BOXWOOD, American , 4 to 6 ins.	10.00
6 to 8 ins.	15.00

BOXWOOD, Japanese , 6 to 8 ins.	10c, each
--	-----------

ILEX crenata , 4 to 6 ins., 2-yr., T.....	15.00
6 to 8 ins., T.....	20.00

Pieris Japonica

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley like flowers appear with the first warm weather and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

4 to 6 ins., TT.....	15c each
6 to 8 ins., TT.....	20c each

Leucothoe Catesbaei

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements.

6 to 8 ins., T.....	20c each
8 to 10 ins., T.....	25c each

Send for List

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

Dr. Lunt has also found that use of about one-fourth to one-third by volume of peat, rice hulls or other coarse material resulted in good drainage in soil mixes. Wood shavings in moderate quantities can be incorporated in soil mixes. The use of half clay with half peat by volume has been promising.

Cold Damage

Experience generally has shown that nursery stock recently planted in the ground or shifted to larger-size containers is especially susceptible to cold damage, and for this reason there is less shifting done in the coldest months. The climatic conditions of California are remarkably varied, and some of the most important producers of container stock are located in somewhat cold and frosty locations. Some large nurseries maintain growing grounds in warmer areas where the more tender things are produced. In some nurseries the familiar oil-burning orchard heaters are kept for use on cold nights.

Some nurseries keep hibiscus and bougainvillea in frames that can be quickly covered by cloth. If ground heat has been accumulated during the day, trapping this heat can be effective, especially since the periods of freezing temperatures are often not of long duration. Some nurseries are using glasshouses for the production of hibiscus and bougainvilleas.

The wind machines often used in citrus growing, either alone or in combination with heaters, do not seem to have been used to any extent for frost protection in nursery production.

Wholesale Distribution

The plant broker plays a definite part in the distribution of nursery stock, especially for many of the small-scale producers of a relatively limited assortment of materials, who do not have a sales organization or distribution system of their own. The large nurseries offer frequent deliveries on a regular schedule of a great assortment of materials. This service is greatly appreciated by the small retail nurseries, since it enables them to reduce inventory without inconvenience to their customers. For distribution through a broker, the producer must pay a commission ranging from 13 to 20 per cent, most often the latter. The small producer can absorb this rather large margin because of his low overhead. In many instances these businesses are conducted as after hours or week-end ventures that may also use some labor of members of the family.

These numerous small-scale grow-

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Fine specimen stock available in the following scarce varieties:

American Holly up to 6 ft. high
Japanese Holly	..... up to 6 ft. high
Taxus capitata	..... up to 7 ft. high
Taxus hicksi	..... up to 7 ft. high
Taxus brevifolia	..... up to 6-ft. spread
Taxus cuspidata	..... up to 6-ft. spread

Also Hybrid Rhododendrons, Azaleas in fine variety, Pieris Japonica, etc., at reasonable prices. Send for list.

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THE BOSLEY NURSERY MENTOR, O.

*Roses, Rhododendrons,
Azaleas and Holly*
Pioneers in Holly Selection

ers are definitely a factor in the price structure of the container plant industry in the Los Angeles area. Several recent surveys of costs and pricing have disclosed that the industry is operating on an uncomfortably close margin. The wholesale prices on some items in the Los Angeles area run so low that many 1-gallon container plants produced in the Los Angeles area are marketed in the area around San Francisco and Sacramento, in spite of transportation costs.

There is also a type of plant broker who specializes in rooted cuttings and planting liners. Often these are offered at exceedingly low figures, as the sources of supply may come from small businesses with low fixed charges. Many of the large wholesale nurseries also offer a complete line of liners, which because of the low transportation costs can easily be marketed nationally.

California is now exporting considerable container stock to many different parts of the United States.

Retail Distribution

There are several distinct channels of retail distribution. Some of the larger nurseries maintain rather large and spectacular retail nursery salesyards, which are attractively landscaped and may feature seasonal shows of flowering plants. Large parking lots must be maintained to handle automobile traffic. They advertise extensively and draw trade from a long distance.

There are a multitude of small neighborhood retail nurseries—perhaps too many—which are located in every locality. These establishments carry a fairly complete line of fertilizers, seeds and garden tools and accessories. They usually do little or no propagation or growing of nursery stock. Their choice of plant materials that will do well in the area makes them an important horticultural influence. Some conduct a landscape contracting business as a side line.

The so-called market nursery is definitely a new and important factor in plant distribution that cannot be ignored. By a market nursery is meant one that is operated in conjunction with a supermarket grocery, a variety store, a department store or a national merchandiser. These establishments may be somewhat seasonal in operation, but many have something to offer throughout the year. All of them emphasize buying and cut prices. Bare-root stock is sold in season, but a considerable volume of container plants is also handled.

In many large grocery markets,

Thorndale Sub-Zero Evergreen Ivy

Special Strain Stands 20 Degrees Below Zero!

Nationally advertised to sell at:
6 for \$4.50 25 for \$15.00
12 for 8.50 100 for 60.00

WHOLESALE PRICES!

\$25.00 per 100 in lots of 250
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Forsythia, Arnold, dwarf, 18 to 24 ins.	50.00
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18 to 24 ins.	\$2.50
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EUONYMUS CARRIERI, PATENS, NEWPORT

	Per 100
15 to 18 ins., B&B, 25 and up...	\$15.00
18 to 24 ins., B&B, 25 and up...	1.25
24 to 30 ins., B&B, 25 and up...	1.50

HARDY VINES

Clematis paniculata, 2-yr. seedlings	\$ 1.00
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one table may be devoted to plants during the whole year. Camellias may be featured in the early winter. Bare-root roses will be sold for several months in the early part of the year. Easter lilies or other seasonal florists' items may be offered. In the off seasons for featured items, green interior foliage plants may be pushed. Unusual plants or slow-selling items are ignored. The market nursery is unquestionably important in such items as roses and camellias. Some general neighborhood nurseries that formerly moved thousands of roses each spring now consider themselves fortunate to sell a few hundred. A number of cafeteria or self-service nurseries have appeared and have been well received. Some nurseries operate on a partial self-service basis on some items.

Conclusion

A visit to nurseries in California would reveal many instances of clever ideas in mechanization and a trend toward the idea of an assembly line type of operation, particularly in nurseries producing over 20,000 or 25,000 container plants per year. It would, however, be a great mistake to regard the present practices in container growing in California to be in all respects a model for

CANADIAN HEMLOCK

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Sizes range from 3 to 6 ft. All plants are dense, severely sheared, and have excellent, fibrous root systems. These plants will satisfy the most discriminating buyers.

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15,000 BUXUS SEMPERVIRENS

4 to 5 ins.	Per 100
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800 Lombardy Poplar, 10 to 15 ft.
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1000 American Arborvitae, 3 to 4 ft.
1000 American Arborvitae, 5 to 8 ft.
300 Mountain Ash, 1 to 1½-in. cal.
200 Canoe Birch, 1 to 2-in. cal.

Also many other items.

TRY US

EVERGREEN EUONYMUS

Heavy advanced liners that will make up quickly in the field. Extra heavily rooted with bushy tops.

	Per 100
Euonymus erectus, 12 to 15 ins., T.	\$35.00
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Euonymus vegetus, 8 to 10 ins., T.	35.00
Euonymus vegetus, 10 to 12 ins., T.	40.00

25 at 100 rate. Samples if you wish.

We also have above varieties in landscape size.

LINWORTH NURSERY

5785 Godown Rd. COLUMBUS 14, O.

DELIVERED! To Detroit and Vicinity.Sheared specimen **Hetz Juniper**

15 to 18 ins. \$2.00

18 to 24 ins. 2.40

24 to 30 ins. 2.75

30 to 36 ins. 3.00

Sheared specimen **Pfitzer Juniper**, same sizes, add 25c.**Mammoth Red Barberry** in No. 3 pots, 20 ins., 75c

Other items: Blue and Green Spruce, potted Golden Ibota, dwarf Blue Willow, Crimson King Maple, dwarf Taxus spreaders.

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Special price for lot

200 **Andorra Juniper**, sheared, 24 to 30 ins.200 **Mugho Pine**, tight, 18 to 24 ins.200 **Colorado Blue Spruce**, 30 to 36 ins.400 **Norway Spruce**, sheared, 30 to 36 ins.

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MENOMONEE FALLS, WIS.

4 miles west of Hwy. 100 on Silver Spring Rd., Waukesha Co.

TAXUS CUSPIDATA

12 to 15 ins., TT.

15 to 18 ins., TT.

18 to 24 ins., TT.

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GLENDALE, Hamilton Co., OHIO

"CRIMSON PYGMY" DWARF RED BARBERRY

Place your order now for fall, 1955, or spring, 1956.

	10 rate	100 rate	1000 rate
1-O. size from 2 1/4-in. pots.....	\$0.35 ea.	\$0.25 ea.	\$0.22 1/2 ea.
2-yr., field plants75 ea.	.60 ea.	.50 ea.

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Painesville, Ohio**SPECIAL GRAPE CUTTINGS**

Concord, Niagara and Delaware

Strong cuttings, tied with wire, 100 per bunch. Order early. Price now \$5.00 per 1000.

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other states. Particularly in the field of sanitation and mechanization there is yet much progress to be made. The many complicated problems involved will keep agricultural engineers, plant pathologists, entomologists, nematologists, soil scientists and horticulturists busy for some time to come. The soil, climate and economic patterns of another state may require some modification of procedures for the successful conduct of this system of production. All the indications are that the system will be applicable in many areas of the country where it has not previously been thought to be practical.

GATHER AT TOWSON, MD.

[Continued from page 12]

Joseph Singewald, director of the Maryland department of geology, mines and water resources, who discussed Maryland's many water problems. These, according to Dr. Singewald, have become more complicated each year as a result of increased industrial demands associated with the ever-increasing demand of farm people for water for use in irrigation.

Henry Hohman, Kingsville Nurseries, Kingsville, introduced Dr. Ernest N. Cory, Maryland's state entomologist, who is working with the committee to develop a test garden for use in insect control work. Dr. Cory reported the test garden is receiving active support from the farm superintendent, Mr. Todd, at the University of Maryland, and is on its way to active use. He requested nurserymen with insect-infested material to make it available for transfer to the garden for experimental work.

Committee Reports

Another report of interest to the nurserymen was the work of Carville Akehurst, Fullerton, and his committee in establishing a fellowship to aid a graduate student at the University of Maryland. Mr. Akehurst reported that the executive committee had unanimously approved the recommendation that the Maryland Nurserymen's Association sponsor a graduate fellowship at the university. The fellowship will be financed through voluntary contributions from Maryland nurserymen. Other committees called upon for reports were the membership committee, with Carl Orndorff, chairman, and the committee on advertising and public relations, with John Burton, chairman.

The afternoon was devoted to a tour of the upper nursery, which

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Here's why: 1. Since 1880 J. Hofert Co. has painstakingly worked to build a reputation for quality. We make every effort to keep that reputation. We send you the very best trees we can get, always.

2. Our company has spent 75 years in developing sources of trees. We carefully control production on our own farms and select the best from other growers.

3. Our organization is geared to cut and bale later than other shippers. You get fresher trees, extra saleable, with fragrance and appeal.



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ROYAL SCOTCH PINE } 800 trees per carload
RED PINE }

Custom grown from selected stock these trees have unusually good color and development. Careful shearing has produced dense foliage and preferred shape. Height varies from 5 to 8 feet.

BALSAM 600 bales minimum per carload

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DOUGLAS FIR . 900 bales minimum per carload

Nationwide service: bundles, truckloads, or carloads.

ENGLISH BERRIED HOLLY plantation grown,
bulk or in 1/2 pound gift boxes.

Phone or write nearest office for prices.

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PITTSBURGH 3, PA., 1726 E. Carson Street—Phone Everglade 1-6649
ST. LOUIS 10, MO., 4030 Chouteau Avenue—Phone Franklin 1-6316
KANSAS CITY 6, MO., 811 Central—Phone Victor 5574
LOS ANGELES 47, CALIF., 5852 S. Western Avenue—Phone Axminister 3-7247
SEATTLE 4, WASHINGTON, 516 Sixth Avenue South—Phone Eliot 0934

overlooks, from a high and scenic hill, the lower nursery. Many unusual and fine specimen plants of boxwood, azaleas, rhododendrons, holly, etc., were found growing under a canopy of beautiful specimen shade trees. Nurserymen and visitors viewing the spectacle were impressed with the beauty and variety of trees, shrubs and plants of virtually every type.

After the tour of the upper nursery the cavalcade of cars returned, under police escort, to the lower nursery, where hot dogs, soft drinks and other refreshments were available. Many of the young folks entertained themselves with songs and guitar music, while the older folks talked and exchanged ideas. A feature of the day, under the leadership of Miss Mildred Clough, was the special entertainment and games provided for the pleasure of the ladies and children at the affair.

THOMPSON'S NURSERY, which has been operated near the municipal market at Oak Ridge, Tenn., by John S. Thompson, will be moved to a tract of two acres near the farmers' market, on Fairbanks road, where operations will be expanded.

MUTIFLORA ROSE — *Rosa multiflora japonica*

Thorny, upright type, propagated from mature midwest fences.

Our stands have never been better. With our improved irrigation and fertilization program, our plants are exceptional this year. Come by and see for yourself, but cover your needs promptly at any rate. We are booked more heavily than we have ever been at this time of the year.

	Per 1000
Conservation grade, 3 mm., 8 to 12 ins.	\$12.50
2/16 to 3/16-in. cal., 10 to 15 ins.	16.00
3/16 to 1/4-in. cal., 15 to 18 ins.	23.00
1/4 to 3/8-in. cal., 18 to 24 ins.	35.00
Plants will be top and root trimmed prior to shipping. All prices F.O.B. Elsberry. No packing charge.	

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Hugh Steavenson, Prop.

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Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for list.

J. V. BAILEY NURSERIES
ST. PAUL 6, MINN.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

OUTMODED IDEAS

With increasing rapidity, new developments are coming along, one after another, to change methods of operation in the nursery business. As I remarked some time ago, we are undergoing a quiet revolution in the nursery business, in spite of the seeming difficulty of using laborsaving devices, etc. The hard thing to realize is that so many of the procedures used so religiously and diligently heretofore are no longer the accepted best.

In the making of cuttings, for instance, I recall how my father, an excellent plant propagator, was so precise in his insistence that a sharp knife be used in making the cut and that a clean cut be made. The reason, I assume, was that a ragged cut or a large wound would tend to promote decay. Today, the approved method seems to be to see that the cut is fairly well chewed and then dipped in hormone powder before insertion in the rooting medium. The wounded cut induces better calusing and rooting.

Moisture Needs

Now the best propagation is being done under constant mist. Of course, the idea of high humidity is not particularly new, but there were a number of steps in its development. I recall Dr. P. W. Zimmerman, at the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., got much better rooting by inserting the cutting at an angle so that the leaves lay almost parallel to and touching the rooting medium. The increased humidity from this position materially aided rooting. Here the big disadvantage was the waste of space caused by positioning the cuttings in the manner described.

One of the things of which a great deal is heard today is the light plastic pot. For many years it was thought that a plant could not grow in anything but a heavy porous clay pot with a hole in the bottom. The plastic pot has the advantages of being lighter, much harder to break and easier to slip, either full or empty, than the clay article. Besides, the plastic pots are more attractive, a decided advantage in this day of container popularity.

When I worked for Dr. Zimmerman in 1928, he was carrying on an experiment in growing plants in clay pots with the hole open and the hole closed with a cork, as well as plants grown in a porcelain container without a hole. The workman who did the watering was not told some of the containers were without drainage holes, and he was not told how much to water them. The plants seemed to grow equally well in all containers.

Not too much need be said of the use of polyethylene wrap in packing, but it is indicative of the general thought that just the opposite of packing in heavy, wet packing material is being done. Now a material is used that conserves the moisture and is, in a sense, airtight, yet does not cause heating and decay.

Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

HEMEROCALLIS

	Per 10	Per 100
Hyperion	\$2.50	\$20.00
J. A. Crawford	2.50	20.00
Mrs. W. H. Wyman	2.50	20.00
Leonian Hybrids	2.50	20.00

Write for quantity quotations.

KINGWOOD NURSERIES MENTOR, O.

GERMAN IRIS

Arctic, California Peach, Flora Zenor, Golden Spike, Grand Canyon, Great Lakes, Lady Mohr, Mt. Sky, Venus de Milo, War Eagle.

\$2.00 per 10 \$15.00 per 100
Collection of 10 units of 10 each, above varieties \$12.00
BEARDSLEE NURSERY PERRY, O.



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DAY LILIES • POPPIES**
ALL YOUNG-GROWN STOCK
PROMPT SERVICE

Send for Wholesale Prices.
Early orders advised.

WASSENBERG GARDENS
4 1/2 Miles East on U. S. 30
VAN WERT, OHIO • "The Peony City"

More or less the same things are happening regarding planting and planting seasons. With the use of wilt-protective sprays, planting seasons can be safely extended both into the winter and, what is more important, into the summer. The greater use of container plants helps this too. Even in the planting of lawns, once thought limited chiefly to two brief seasons in spring and fall, the season can be greatly extended. The use of humus or peat in the topsoil and the use of lawn burlap greatly increase the success of summer lawn plantings. In addition, the development of turfs that can be plugged makes lawn establishment easier.

Feeding Plants

One of the most important fields in which ideas have changed is in the matter of feeding plants. I still recall a nurseryman's scolding me for feeding plants in January, saying that I should induce early growth that might be frost injured. Today there is so much emphasis on heavy feeding in agriculture and horticulture that liquid nitrogen is used under pressure.

In this respect I have to withdraw

FELLOW NURSERYMEN:

We are now in a position to take on fruit tree budding and budding of *Viburnum carlesii* on *Viburnum lantana* understocks. With little overhead, we can furnish attractive prices on these contracts. We have had 20 years' experience in this field.

If interested, contact us now for future arrangements.

Calvin W. LaVigne

CARLETON NURSERY CO.
Jones Rd. CARLETON, MICH.

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EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

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Princeton, Illinois

AMERICA'S BEST SOURCE
FOR

HARDY PLANTS

WRITE FOR
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MENTOR,
OHIO

Wayside



Gardens

a statement made some years ago. I said that container-grown plants transplanted better, particularly in summer, than field-grown plants, but their appearance and growth were poorer and less. Now, with forced feeding, it is possible for a nurseryman to produce fancy container-grown plants.

I suppose there are many other ideas which were nurtured and preserved carefully that will now have to be given up as new discoveries come along, but the innovations make life interesting for the nurseryman!

HOWE NURSERIES' GROWTH

[Continued from page 10]

1931, but by the fall of that year it was almost nonexistent. Out of that crisis came a complete change in the Howe Nurseries operation. For the first time the Howes entered the retail field. They opened a roadside market in 1931 (one of the first in the area) and met with excellent response.

When the state highway was rebuilt to bypass Pennington, the Howes opened a second market at Trenton, in 1934. This venture also met with an encouraging public response. Then in 1935 a third market, with Eugene Howe in charge, was opened at Madison, followed by a fourth market, at Maplewood, N. J., in 1937. Eugene Howe, who now lives at Madison, also directs the Maplewood market. World War II gas rationing boomed business at these urban markets. However, it is the Pennington market which in recent years has produced the greatest volume.

Landscaping

Howe Nurseries no longer propagate stock, but the firm buys both finished and unfinished material from growers throughout the country. Meanwhile its landscape operations have become an important part of its over-all volume. Since World War II, Howe Nurseries have handled contracts as far away as Pittsburgh, Pa., and Toronto, Ont. Working with Jo Ray, New York city landscape architect, the firm landscaped the Helena Rubinstein cosmetics factory at Roslyn, L. I., and later a second establishment at Toronto. The firm furnished plant materials for other buildings, such as those of Lever Bros. and the United Nations, in New York city, and also did extensive landscaping on projects such as the Garden State parkway and the New Jersey turnpike. Residential landscaping, however, comprises a large part of the

WE STILL CAN FURNISH

	Per 100	Per 1000
Beauty Bush, <i>Kolkwitzia amabilis</i>		
2-yr. S., 6 to 9 ins.	\$10.00	\$ 85.00
2-yr. S., 9 to 12 ins.	15.00	125.00
T., 9 to 12 ins.	17.50	150.00
T., 12 to 18 ins.	22.50	200.00
Washington Hawthorn		
1-yr. S., 6 to 9 ins.	7.50	65.00
T., 9 to 12 ins.	15.00	125.00
T., 12 to 18 ins.	22.50	200.00
Red Barberry		
1-yr. S., 6 to 9 ins.	6.00	45.00
European Mountain Ash		
1-yr. S., 6 to 12 ins.	6.50	55.00
Cotoneaster divaricata		
1-yr. S., 6 to 12 ins.	10.00	85.00
T., 12 to 15 ins.	15.00	125.00
Cornus florida		
2-yr. S., root-pruned, 12 to 18 ins.	10.00	85.00
18 to 24 ins.	15.00	125.00
2 to 3 ft.	17.50	150.00
Rhodotypos scandens (kerrioides)		
S., 6 to 12 ins.	7.50	65.00
S., 12 to 18 ins.	10.00	85.00
Viburnum dentatum		
1-yr. S., 6 to 9 ins.	7.50	65.00
2-yr. S., 12 to 18 ins.	12.50	100.00
1-yr. row run, 3 ins. up		50.00
Viburnum lantana		
1-yr. largest	7.50	65.00
2-yr. S., 6 to 12 ins.	10.00	85.00
2-yr. S., 12 to 18 ins.	15.00	125.00
Viburnum opulus		
1-yr. S., 6 to 12 ins.	10.00	85.00
Viburnum sieboldi		
1-yr. S., 3 to 6 ins.	7.50	65.00
1-yr. S., 6 to 9 ins.	10.00	85.00
Viburnum tomentosum		
1-yr. S., 6 to 12 ins.	10.00	85.00

NEWPORT NURSERY COMPANY

NEWPORT, MICH.

RED BARBERRY

Berberis thunbergii atropurpurea

	Per 10	Per 100
12 to 15 ins., heavy.....	\$3.25	\$27.50
15 to 18 ins., heavy.....	3.75	32.50
18 to 24 ins., heavy.....	4.25	37.50

Write for quantity quotations.

KINGWOOD NURSERIES MENTOR, O.

COLORADO SPRUCE

All Specimen Stock

Plenty of good blues, 3 to 7 ft.

You dig.

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Send for our special bulletin, listing new prices on the above.
See our Peony listing in classified section of this issue.

Also listing a general assortment of nursery stock.

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SARCOXIE NURSERIES PEONY FIELDS

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Nick I. W. Kriek—Harold E. Hicks
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SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the whole-
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KRIEGER'S WHOLESALE NURSERY
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Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.

Established 1864 : STURGEON BAY, WIS.

day-to-day operations of the company.

With all their business interests, William P. Howe and his son, William, Jr., have found time to serve their community and state in many ways. Both have served as mayor of Pennington. William, Jr., also served two terms in the New Jersey assembly as a representative from Mercer county. In addition, he has been chairman of various Red Cross campaigns, is active in the Boy Scouts, is a member of the planning board of Hopewell township and is a trustee of the Stony Brook Watershed Association. He was chairman of the summer outing committee of the New Jersey Association of Nurserymen, reported elsewhere in this issue.

William Howe, Sr., has been president of the Pennington fire company and a director of the Pennington Spring Water Co. and did much to help the borough acquire a municipal waterworks. He has generously donated large tracts of land to the community for various civic purposes.

A third generation of the Howes will join the Howe Nurseries within another year. He is Lt. William P. Howe III, who graduated in 1951 from Rutgers University with a B.S. in horticulture. At present he is serving in the navy as gunnery officer on the warship Savage. R. P. K.

BOTANICAL GARDEN GROUP

[Continued from page 19]

tration building. The laboratory will first be used by the Illinois Natural History Survey for work in connection with Dutch elm disease, under the direction of Dr. J. C. Carter.

Experimental Work

In the future, much more emphasis will be laid on practical experimental and testing work. New machinery and equipment will be thoroughly tried under field conditions. Fertilizer test plots have been set up. Pruning demonstrations are in operation, both of branch and root systems of trees. Wrapping of newly planted material is being compared with shading. Another set of experiments on filling around trees to various depths is designed to show the effects of this practice on different species; attempts will later be made to save some affected trees. Other specimens are being girdled, to discover how long it takes to kill the tree by this means and what symptoms are shown. An orchard of dwarf fruit trees will demonstrate their value for home planting. Next

spring, when seven new houses of a housing group eventually to contain 27 houses have been built for employees, each will receive the most careful landscape planning, using only the best and most suitable types of trees and shrubs.

It was evident both that Mr. Godshalk's talk was highly appreciated by his audience and that Morton Arboretum in the future, by the prosecution of the vigorous ideas mentioned, will be even more in the forefront of the world's arboretums than it has been in the past.

B. O. Mulligan,
University of Washington Arboretum

LAKE COUNTY ELECTION

The Lake County Nurserymen's Association announces its new officers for the 1955-1956 term. They are as follows: President, Joseph J. Kern, Mentor; vice-president, Gerard Klyn, Jr., Gerard K. Klyn, Inc., Mentor, and secretary-treasurer, Marie Brandstaetter, Mentor.

Members of the executive committee are Michael Sebian, Painesville; David Dugan, Perry, and K. B. Fisher, Mentor. The president has appointed Herbert Horton, Horton Nurseries, Inc., Painesville, and Lester Square, Painesville, to serve on the program committee.

A meeting of the association will be held Tuesday evening, September 20, at Hellriegel's Inn., Painesville. After the business meeting, slides will be shown. Each member is asked to bring 10 Kodachrome slides, showing scenes from vacation travels or other favorite views which do not necessarily have to be in conjunction with the nursery business.

Marie Brandstaetter, Sec'y.

PURCHASES RETAIL OPERATION

Walter Niehaus, for the past six years manager of the retail sales division of Andrews Nursery Co., at Faribault, Minn., has purchased the Orchard Crest Farms retail division from the firm. Mr. Niehaus has announced that effective October 1 the office will be moved to Minneapolis.

Under the new owner's management, the firm will specialize in landscaping service and furnishing hardy northern-grown stock. Salesmen will represent the firm in Minnesota, Wisconsin, Iowa and North and South Dakota.

Orchard Crest Farms' operation will not be changed, according to Kimball Andrews, president of the nursery company.

PLANT MATERIAL

Fall, 1955 — Spring, 1956

5000 Dogwood, white-flowering, multiple trunk, B&B	
4 to 5 ft.	\$3.75
5 to 6 ft.	5.50
6 to 7 ft.	6.50
7 to 8 ft.	7.50
5000 Dogwood, white-flowering, single trunk, B&B	
4 to 5 ft.	3.00
5 to 6 ft.	3.75
6 to 7 ft.	4.75
7 to 8 ft.	7.50
2000 Euonymus alatus	
br., 2½ to 3 ft.	1.50
B&B, 2½ to 3 ft.	2.00
3000 Euonymus alatus compactus	
br., 15 to 18 ins. ....	.85
B&B, 15 to 18 ins.	1.15
4000 br., 18 to 24 ins.	1.25
B&B, 18 to 24 ins.	1.65
7000 Euonymus carrierei, 4-yr., full, heavy,	
B&B, 15 to 18 ins.	1.00
2000 Euonymus coloratus, 4-yr., 10 to 15 leads,	
B&B, 24 to 30 ins. ....	.75
3000 Euonymus vegetus, 3-yr.,	
br., 12 to 15 ins. ....	.50
potted, 12 to 15 ins. ....	.65
300 Washington Hawthorn, bushy, B&B, 5 to 6 ft.	5.50
1500 Hemlock, full, heavy, B&B	
3½ to 4 ft.	5.50
4 to 4½ ft.	6.50
2000 Juniper, Andorra, full, compact, B&B	
15 to 18 ins.	1.75
18 to 24 ins.	2.50
24 to 30 ins.	3.00
3000 Juniper, Pfitzer, full, compact, B&B	
15 to 18 ins.	1.35
18 to 24 ins.	1.85
500 Philadelphia virginialis, genuine double-flowering,	
B&B, 3½ to 4 ft.	1.50
2000 Red Pine, sheared, full, B&B, 5 to 6 ft.	6.50
1500 Red Pine, sheared, full, B&B, 6 to 7 ft.	7.50
500 Red Pine, sheared, full, B&B, 7 to 8 ft.	9.00
3000 Scotch Pine, sheared, full, B&B, 3 to 4 ft.	3.50
2000 sheared, full, B&B, 4 to 5 ft.	5.50
1000 sheared, full, B&B, 5 to 6 ft.	6.50
1000 White Pine, sheared, full, B&B, 2½ to 3 ft.	2.65
1500 White Pine, sheared, full, B&B, 3 to 4 ft.	3.50
500 Syringa chinensis, B&B, 3½ to 4 ft.	1.50

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Long-distance phone: Butler 2-3191

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grow genuine

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FOR THE BEST IN CACTUS AND SUCCULENTS

WONDER COLLECTION: One
hundred all different.

\$5.00 per 100, \$45.00 per 1000.

CANADIAN SPECIAL: More
durable kinds, 20 varieties.

\$5.00 per 100, \$45.00 per 1000.

SUPER SELECTION: Largest
from the shipping flats.

\$10.00 per 100, \$90.00 per 1000.

HUMMEL'S EXOTIC GARDENS

Rt. 1, Box 900 CARLSBAD, CALIF.

PLANT NOTES HERE AND THERE

By C. W. Wood

Narthecium Americanum

During the past few years I have been interested in an eastern American bog asphodel, *Narthecium americanum*. Recently, I found a source of supply of the plant; so I feel free now to mention it here. Its local distribution in some of the bogs on the pine barrens of New Jersey partially accounts for the plant's almost entire absence from gardens, but lack of knowledge of its need for an acid soil no doubt gave it such a bad reputation in its early adventures in gardens that discouragement and then neglect followed. Now that we know its needs for acidity, along with an abundance of moisture, there seems to be no reason why gardeners cannot enjoy its unique beauty.

That beauty consists of pretty irislike foliage (it is a lily cousin) and foot-tall to 15-inch spikes of yellow flowers in June and July, followed by attractive, reddish-brown seed capsules in fall. It all makes a nice bog ornament, good looking over a long season. It is not difficult to grow from seeds, according to my information, by sowing fresh seeds outdoors in a peaty soil in autumn, and not too difficult to keep going in the garden, if one remembers its need for an acid, moist soil.

I recall having years ago, from the late Carl Purdy, a Pacific coast species, *N. californicum*, which was lost after two or three years, probably from a combination of its tenderness to cold and a lack of moisture. Also it may be because we did not know its cultural needs, if it needs an acid soil, but of that I cannot say, as the literature does not mention that phase. I do know, though, that it had a short spike of greenish-yellow flowers on stems to 18 inches in height and pretty salmon-colored seed capsules.

Anemone Coronaria

A correspondent who forces several kinds of bulbs for his spring trade says that he has poor results from *Anemone coronaria* and asks for a few pointers on its culture. I suspect from correspondence which crosses my desk that many, perhaps most, gardeners who were not educated in the flower forcers' techniques wind up with poor results when they attempt to handle the flo-

rists' anemones (forms of *Anemone coronaria*). Fortunately for me, so far as answering this inquiry is concerned, it was only the winter before last that I checked up on the different methods used by florists, and the ones handled after the following schedule gave most satisfactory results:

In early November several tubers were planted in a 6-inch pan of light soil (our own sandy garden soil, to which was added about one fifth of leaf mold) and kept under a bench in a cold sash house, where the temperature remained about 50 degrees until the middle of December, when the pots were removed to a cool window of our home, with a similar temperature. The object is to get a pan full of roots by flowering time. Following the foregoing plan and taking care to see that the plants are not overwatered before the flowers appear are the principal requirements of successful forcing, though too high temperatures are

always to be avoided. Florists usually plant in September and October, keeping their stock in a coolhouse (50 degrees) for flowering from January to March. One may vary the schedule to meet the desired flowering date.

Jasione

Last summer, while going over a part of the garden that has had no attention for more than a decade, I came upon plants of *Jasione perennis* growing in solid grass. I do not remember *jasione* as being especially long-lived; so the plants must have been self-sown seedlings. In any case, the incident suggests to me that these plants and others of the genus deserve more attention than they ordinarily receive. As I remember the different kinds now, not all are as permanent as *J. perennis*; so one would have to do some choosing to get the abiding ones.

All *jasiones* that I know (there are about six of them, I believe) are

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Alpine Currant
Hydrangea P. G.
French Lilacs
Snowball
Shade Trees
Evergreens
Phlox
Peonies
Palm Seedlings
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.
CHARLES CITY, IA.

CHOICE PEONIES

Each Per 100
Philippe Rivoire, late red. \$0.80 \$70.00
Longfellow, red60 60.00
Baroness Schroeder, white. .45 40.00
Nimbus, bluish-white70 65.00

Minimum \$5.00; send extra for postage on small orders.

FREE LIST. Over 150 kinds for every need—cut flowers, landscape, garden, extra-early hybrids. You will appreciate roots free from nematodes.

EDWARD AUTEN, JR.
250 Main St. PRINCETON, ILL.

SPIRAEA JAPONICA COCCINEA

(Improved Anthony Waterer)

Per 100 Per 1000
15 to 18 ins. \$10.00 \$350.00
18 to 24 ins. 50.00 450.00

KINGWOOD NURSERIES
MENTOR, O.

Northern-Grown Quality Stock

Shipment Sept. 15 to Nov. 1

4-yr. Transplants Per 100 Per 1000

Colorado Blue Spruce

8 to 10 ins. \$18.00 \$150.00
6 to 8 ins. 15.00 120.00
4 to 6 ins. 12.00 100.00

Black Hills Spruce

10 to 12 ins. 20.00
8 to 10 ins. 18.00 150.00
6 to 8 ins. 15.00 120.00
4 to 6 ins. 12.00 100.00

Norway Spruce

12 to 15 ins. 18.00 150.00
10 to 12 ins. 12.00 100.00
8 to 10 ins. 10.00 90.00

Mugho Pine (Dwarf Tyrolean), sheared

4 to 6 ins. 18.00 150.00
Balsam Fir

10 to 12 ins. 20.00 150.00
8 to 10 ins. 15.00 130.00

3-yr. Seedlings

Colorado Blue Spruce

8 to 10 ins. 6.00 50.00
6 to 8 ins. 4.00 35.00
4 to 6 ins. 3.50 30.00

Black Hills Spruce

6 to 8 ins. 4.00 35.00
4 to 6 ins. 3.50 30.00

Mugho Pine (Dwarf Tyrolean), sheared

4 ins. 4.00 35.00
Riga Scotch Pine

8 to 10 ins. 35.00 30.00
6 to 8 ins. 30.00 25.00

Austrian Pine

8 to 10 ins. 3.50 30.00
Ponderosa Pine

10 to 12 ins. 4.00 35.00
8 to 10 ins. 3.50 30.00

Norway Spruce

10 to 12 ins. 5.00 45.00
8 to 10 ins. 3.50 30.00

American Arborvitae

4 to 8 ins. 3.50 30.00
Write for Price on Colorado Blue Spruce, 3-yr., 4 to 6 ins., Lots 25 to 50,000 or more.

Strict Grade. Best of Packing.

J. R. PALMER & SON
BLACKDUCK, MINN.

sweet, little things, close to campanula, that ask for little and give much. They did well in northern Michigan in full sun and part shade and usually were able to get along on the normal rainfall, although the two alpine kinds, *J. supina* and *J. humilis*, that I remember best, suffered if dry weather lasted too long. In fact, I recall distinctly that the two kinds just mentioned showed their only losses during long dry spells. These two make tufts of foliage an inch or less high, when they are in congenial quarters, spreading into clumps a foot or so wide. From these tufts they send up stems to the height of three or four inches, crowned with dense heads of bright blue flowers, reminding one somewhat of a small scabiosa. On the other hand, the first one mentioned, *J. perennis*, grows to a foot in height.

All grow readily from seeds and give little trouble in the seedling stage. Vegetative reproduction is rapid and sure from divisions. In fact, I just read a note in one of my old field books that we made 48 divisions from one 2-year-old clump of *J. perennis*.

Oxytropis Note

In the same field book just mentioned I came upon a note on some small oxytropis species which may be of interest at this time. It read in part: There are several species of oxytropis which grow from two to six inches tall which should be of interest to growers who have calls for miniature plants. They all have pretty legume foliage, some silver-plated, and pea flowers in early summer, and all want a deep, well-drained soil in sun.

Such kinds as *O. triflora*, deep lilac, and *O. montana*, light reddish-purple, growing two inches tall, and *O. ochroleuca*, yellow, that grows about four inches, are good things for the seeker of miniature plants. And there are many others which will repay investigation. They must be grown from seeds, as the long taproots are difficult to divide. For the same reason, the commercial grower will find pot culture most satisfactory.

Herniaria

A letter came this morning which I think will bear repeating in part. "You may remember," it read, "that you recommended three or four years ago *Herniaria glabra* for a dry, sterile slope that I had to plant. Well, I did it, and it was the most satisfactory part of that section of the garden to my customer. I believe more nurserymen would use this lit-

FALL LINERS

	Per 100	Per 1000	Per 10,000 lots
Colorado Blue Spruce, X, 9 to 12 ins.	\$25.00	\$175.00	....
Colorado Blue Spruce, X, 6 to 9 ins.	18.00	125.00	....
*Colorado Blue Spruce, 3-0, 5 to 10 ins.	10.00	50.00	\$47.50
Colorado Blue Spruce, 3-0, 3 to 5 ins.	6.00	30.00	28.00
Black Hills Spruce, X, 8 to 12 ins.	22.50	150.00	....
Black Hills Spruce, X, 4 to 8 ins.	15.00	90.00	....
*Black Hills Spruce, 3-0, 5 to 10 ins.	7.50	35.00	33.00
Black Hills Spruce, 3-0, 3 to 5 ins.	5.00	20.00	18.00
White Spruce, 3-0, 5 to 10 ins.	7.50	35.00	....
White Spruce, 3-0, 3 to 5 ins.	5.00	20.00	....
Norway Spruce, 3-0, 6 to 12 ins.	8.00	40.00	....
Taxus Cupidata Capitata, X, 8 to 12 ins. (from seed, individually sheared)	65.00	....	....
Taxus Densiflora, X, 6 to 8 ins.	50.00	....	....
Douglas Fir, X, 9 to 12 ins.	25.00	125.00	....
Douglas Fir, X, 6 to 9 ins.	15.00	75.00	....
Douglas Fir, 3-0, 3 to 8 ins.	7.50	35.00	33.00
Douglas Fir, 2-0, 3 to 6 ins.	6.00	28.00	25.00
Mugho Pine, 2-1, 3 to 5 ins.	8.00	40.00	....
*Riga Scotch Pine, 2-0, 6 to 10 ins.	10.00	36.00	35.00
*Riga Scotch Pine, 2-0, 4 to 8 ins.	7.50	26.00	24.00
*Riga Scotch Pine, 2-0, 3 to 6 ins.	5.00	22.00	21.00
Austrian Pine, 2-1, 4 to 8 ins.	10.00	50.00	45.00
*Austrian Pine, 2-0, 3 to 6 ins.	5.00	22.50	21.00
White Birch, XX, 3 to 4 ft.	75.00

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Berberis Mentorensis
Birch, Weeping Cut-leaved
Cornus Florida
Cotoneaster Divaricata
Cotoneaster Apiculata
Crab Apple, Flowering
Euonymus Alatus Compactus
Euonymus Patens
Euonymus Vegetus
Juniperus Canadensis
Juniperus Columnaris
Juniperus Glauca
Juniperus Keteleeri
Juniperus Pfitzeriana
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the plant for their dry, difficult spots if they knew about it."

The plant has little to recommend itself, except that it will grow in the poorest, driest, sunniest spot and make play of its job. It will quickly cover all such territory and self-sow into similar situations everywhere within its reach. For some reason, it often did not live over winter in our trials, but seedlings usually came along rapidly in spring to take the place of those which disappeared. The foliage is never too dense nor too high (usually an inch or two) for use as a ground cover even over the small, hardy bulbs which need some protection against the mud splashing of heavy rains, yet fail with a deeply rooted companion or a dense covering. The flowers are of little value from a decorative standpoint, being of an inconspicuous greenish shade. Plants are easily grown from seeds.

Breweria

Another inquiry on the desk this morning, from an Illinois reader, brings up a subject—that branch of the convolvulus family known as breweria (for Samuel Brewer, an English amateur botanist of the 18th century)—of which I know little. The hardy members of the genus, of which three are mentioned as growing in the southeastern and southern states, are apparently of minor importance as garden subjects, but they evidently have never had many opportunities to show their value. The floras say that they resemble their near relatives, convolvulus, from the gardener's viewpoint, being little more than small-flowered members of that tribe. They are all "perennial prostrate or diffusely spreading herbs," according to the botanists, which is exactly what one would expect from the relationship.

Breweria humistrata and *B. pickeringii* are white-flowered forms found growing on dry pine barrens, the former from Virginia to Louisiana and the latter from New Jersey to Texas, as far north as Illinois

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HEAVY SHEARED, vigorous carefully grown stock. 15 per cent discount to those who will dig own stock. Personally inspect these plants.

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18 to 24 ins.	\$4.00
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15 to 18 ins.	1.50
<i>Juniperus hetzi</i>	
12 to 15 ins.	1.35
15 to 18 ins.	1.50
18 to 24 ins.	2.25
24 to 30 ins.	2.50
<i>Juniperus pfitzeriana</i>	
12 to 15 ins.	1.35
15 to 18 ins.	1.50
18 to 24 ins.	2.25
3 to 4 ft.	5.00
<i>Juniperus burki</i>	
2 to 2 1/2 ft.	2.25
2 1/2 to 3 ft.	2.75
<i>Pyramid Arborvitae</i>	
18 to 24 ins. ....	.95
4 ft.	2.90
5 ft.	3.00
<i>Elegantissima Arborvitae</i>	
18 to 24 ins.	1.50
2 1/2 to 3 ft.	2.00
3 to 4 ft.	3.00
<i>Woodward Globe Arborvitae</i>	
12 ins.	1.00
18 to 24 ins.	1.50

Golden Biot

12 to 15 ins.	\$1.25
15 to 18 ins.	1.50
18 to 21 ins.	1.75

SHRUBS

<i>Rhamnus frangula</i>	
4 ft. ....	.50
<i>Mentorensis Barberry</i>	
18 to 21 ins. ....	.45
<i>Euonymus coloratus</i>	
2-yr. ....	.35

SHADE TREES

<i>Silver Maple</i>	
6 to 8 ft.	2.00
8 to 10 ft.	2.50
10 to 12 ft.	3.00
<i>Norway Maple</i>	
10 to 12 ft., branched.	3.00
<i>Crimson King Maple</i>	
8 ft., branched.	4.75
<i>Chinese Elm</i>	
2 1/2-in. caliper	10.00
3 to 3 1/2-in. caliper	15.00
(Above trees heavy, 12 to 15 ft. in height.)	
<i>Prunus cistena</i>	
5 to 6 ft., extra-heavy, B&B.	4.00

Above trees are exceptionally nice. Trees well-spaced. A real buy.

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and Iowa. *B. aquatica*, with purplish flowers, grows on wet pine barrens from North Carolina to Missouri and Texas. A collector in North Carolina advises that he judges from his observations that they would all need an acid soil if they were transplanted to the garden.

Calypso Bulbosa

Several inquiries during the past few months on *Calypso bulbosa* make me think that a few remarks on this most interesting of hardy orchids may not be out of place, not that I shall be able to say much of a constructive nature, but an appeal for a number of enthusiasts to make an exhaustive study of the plant and its cultural needs may bring results.

For the benefit of those not acquainted with the plant, it may be said that each tiny bulb sends up a single oval or ovate leaf and a 3 to 4-inch scape, bearing one pink flower, the lip being yellowish inside and marked with brown and purple. It is the most ravishingly beautiful of hardy orchids, to me, rivaling the delicate tropical species in beauty. Unfortunately, it is not easy to grow when removed from its natural home.

A few words about its natural haunts may give some clues as to what one may expect in the way of cultural needs. I am of the opinion that it never was plentiful in the part of its range (across the northern part of the continent south to Minnesota, Michigan and New England) with which I am familiar (northern Michigan) except locally, and now, after the depredations of lumbermen and the fires which followed those despoilers, drainage and avaricious plant collectors, it is found only sparingly in cold swamps, rarely in dense, mossy woods. The little bulb is generally buried about three fourths in pure moss, with the tip extending above the surface. The situation which it chooses as its home is always covered with snow until growing weather is certain, thus assuring a dormant state until suitable growing conditions are permanently established for the rest of its vegetative period. This condition may be a limiting factor in its successful culture in gardens; again, it might be possible to work out some system of getting around it.

Some system of growing the plant from seeds must also be found, because the natural stocks will not last forever. I regret that I cannot write anything positive about its propagation. I once got good germination from fresh seeds sown on a well-rotted hemlock log in a dense

CHOICE STOCK

	Per 100	Per 1000
Colorado Blue Spruce, (2-0), 2 to 4 ins.	\$ 4.00	\$20.00
(2-0), 3 to 5 ins.	5.00	25.00
(2-2-2), 6 to 8 ins.	25.00	...
(2-2-2), 8 to 10 ins.	35.00	...
Norway Spruce, (2-0), 2 to 4 ins.	3.50	15.00
(3-0), 4 to 6 ins.	4.00	20.00
(3-0), 6 to 8 ins.	6.00	30.00
(2-2), 3 to 5 ins.	5.50	35.00
(2-2), 6 to 8 ins.	8.00	50.00
(2-2), 8 to 10 ins.	9.50	65.00
Serbian Spruce, (2-1), 3 to 6 ins.	10.00	75.00
White Spruce, (2-0), 3 to 5 ins.	4.00	20.00
(2-1), 3 to 5 ins.	5.50	35.00
Taxus capitata, (2-1), 3 to 6 ins.	25.00	...
Austrian Pine, (2-0), 2 to 4 ins.	3.50	15.00
(2-2), 3 to 5 ins.	6.50	35.00
(2-2), 6 to 8 ins.	8.00	50.00
(2-2), 8 to 10 ins.	9.50	65.00
Lodge Pole Pine, (2-0), 3 to 5 ins.	5.00	25.00
Mugho Pine, (2-2), 4 to 6 ins.	10.00	65.00
Scotch Pine, (2-0), 2 to 4 ins.	3.50	15.00
(2-2), 4 to 8 ins.	7.00	35.00
(2-2), 8 to 10 ins.	10.00	50.00
European White Birch, (2-1), 12 to 15 ins.	15.00	...
Scotch Pine and Norway Spruce, bedding stock, (2-0), up to 2 ins.	7.50	...

Bedding stock, spring only, spruce bedders should be shaded for one year.

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No order can be accepted for less than 50 of one variety and size. 50 and 500 of a size and kind sold at the 100 and 1000 rate respectively.

Evergreens can be shipped after Oct. 1. Orders may be booked, one-half cash, balance C.O.D. We ship express, unless otherwise stated.

Our seedlings are grown in high humus (1 yd. peat per 100 sq. ft.) low density beds (50 to 60 per sq. ft.), assuring sturdy stem and fibrous roots.



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JUNIPERUS (Juniper)

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Chinensis columnaris
(Green)

Chinensis mascula

Chinensis pfitzeriana

Chinensis pfitzeriana
(Kallay's Compact)

Chinensis procumbens

Communis depressa
plumosa

Communis hibernica

Excelsa stricta

Glauca hetzi

Glauca hetzi (Globe)

Glauca hetzi (staked
upright)

Kosteri plumosa

JUNIPERUS

Sabina

Sabina tamariscifolia

Sabina vonehron

Sabina vonehron (Globe)

Sabina vonehron (staked
upright)

Scopulorum (Select Blue)

Scopulorum, Chandler's

Scopulorum, Crawford

Scopulorum, Sutherland

Virginiana burki

Virginiana canaerti

Virginiana cupressifolia

Virginiana henryi

Virginiana hilli

Virginiana keteleeri

THUJA (Arborvitae)

Aurea nana

Bonita

Excelsa

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2 to 3 ft.	75.00	650.00
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1-yr. H. W. cuttings.....	45.00	350.00

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swamp, but did not bring a single seedling through the young stages. I give the following advice, which I read somewhere: Plant seeds in March in soil taken from around old plants.

Small Epilobiums

I also have a request from a Connecticut reader for the names and culture of a couple of small epilobiums which will challenge his ingenuity. That kind of request is so refreshing that I attempt the reply with more than the usual degree of pleasure, for requests are generally for something of simple culture. That would be rather difficult among the small willow herbs, according to my experience.

To start the inquiry, let us examine *E. alpinum*, which inhabits arctic America, extending down to the alpine slopes of New Hampshire and in the Rockies as far south as Colorado. It grows about three inches high, bearing many pink flowers in April, and proved itself to be difficult to manage in our trials. In the first place it requires cool conditions, and, again, it seems to need constant moisture. From the high Sierras comes *E. obcordatum*, with rose-colored flowers on 4-inch stems, which was equally difficult under similar treatment.

While the two preceding forms require the good drainage and constant moisture of a moraine, the two to follow need constant moisture but seem less demanding as to drainage, so long as the soil is acid. The first of these, *E. luteum*, occurs in sub-alpine, wet places from Washington to Alaska and bears yellow flowers in July and August; the other, *E. latifolium* (*Chamaenerion latifolium* of some botanists) produces bright rose flowers on 4-inch stems.

Rydberg describes 33 epilobiums that are native to the Rocky mountain regions (there are more than 200 of them scattered over the world), a few of which extend into the northern parts of the east. Many others are confined to the arctic regions and the mountains of California. So, if one is vitally interested in willow herbs, he ought to be able to find something of interest and garden value in that vast assemblage.

DRAINAGE IMPROVEMENT

Installation of nearly a mile of tile drains to improve drainage on a 7-acre plot of land is the latest step in an ambitious soil conservation experiment by Western Nurseries, Hopkinton, Mass.

The firm, which won a conserva-

tion award in 1952 for outstanding work in soil and water conservation, takes special pride in nursery stock which is grown on sloping fields. Edward Mezitt and his father, proprietors of the nursery, claim that nursery stock grown on the contour is of the best quality and that it also grows faster.

Each year, the Mezitts clear about 20 acres of land, planting all sloping fields on the contour and supplementing contour planting with diversion terraces for the purpose of checking the down-slope flow of rain water.

Similar methods used in other parts of the nation have resulted in a 30 per cent increase in total production.

WEST VIRGINIANS MEET

The West Virginia Nurserymen's Association held its 17th annual summer meeting August 10 and 11, with headquarters at the Beckley hotel, Beckley, W. Va. Approximately 50 members of the association, their families and friends registered for the 2-day meeting.

Being the only member in Raleigh county, S. F. Thomas, Shady Springs Nursery, Shady Springs, acted as host at the conclave. It was the first time the association has met at Beckley.

Theme of the convention was "Plant Materials," with all meetings being held in the Appalachian building on South Kanawha street. Albert S. Beecher, Jr., associate horticulturist, Virginia Polytechnic Institute, Blacksburg, Va., and Arthur J. Lancaster, Jr., Coleman Nursery, Portsmouth, O., were the speakers on the program.

A special tour of outstanding home gardens in the Beckley area was enjoyed by the nurserymen, as was the picnic held at Little Beaver park, Thursday evening.

ROUND-TABLE MEETING OFF

Archibald Enoch Price, Glenview, Ill., has announced that the round-table meetings on the care of trees, shrubs and evergreens will not be scheduled for this fall for local arborists from the Chicago area. However, he said, his tree, shrub and evergreen library is available for study at all times.

Mr. Price will again be giving his adult education evening series of six lectures at Maine township high school, Des Plaines, Ill., starting October 6. This series will be on the care of trees, shrubs and evergreens.

DO YOU HAVE STOCK TO SELL?

Supply Short

Another summer of dry weather in some areas has hampered the production of nursery stock this season.

Some growers will be able to fill orders only on a pro rata basis, and their customers are looking for other sources to supplement their supply.

Demand Strong

Home building, continuing at a high rate, supports the strong demand for nursery stock that has been experienced in recent seasons.

Consumer buying has shown no decline in the face of business adjustments in some areas, and autumn is expected to show an upturn in general trade activity.

Gardening interests a greater number of people than ever before, and their purchases of plants increase from season to season.

Market Ready

If you have a specialty crop or a general line of stock for wholesale, you can turn into cash any part of it not already booked on orders. The American Nurseryman reaches nearly 9500 trade buyers (paid subscribers). The cost of reaching them depends on the quantity of stock you have to sell, thus:

(1) Your complete price list can be published in one page or two or more pages, depending upon the number of items, at \$120.00 per page (less on term orders). Reprints can be supplied at cost for your mailing list or to answer inquiries.

(2) Specialty items or a short list can be offered in display advertising space—from 1 inch upwards—at \$4.00 per column inch per insertion (less on term orders).

(3) Staple items can be listed under suitable headings in the Classified advertisements at 35 cents per line (6 average words) per insertion. Note the increase in pages of these "liners" from issue to issue because trade buyers look them over to find their wants.

Prompt Action

Mail your advertising copy now. You will receive orders from the American Nurseryman pages before you can prepare, plan, print and mail a circular—and the cost is much less!

Forms for the October 1 issue will be open until September 16 (classified ads until September 20).

Mail copy early—don't miss the big issue of autumn.

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343 S. Dearborn St.

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SURPLUS LIST—AUGUST, 1955

B&B Material

25 Hemlock, 4 to 4½ ft., heavy, sheared.....	\$ 8.50
15 Hemlock, 4½ to 5 ft., heavy, sheared.....	10.50
15 Hemlock, 5 to 6 ft., heavy, sheared.....	12.50
100 Nick's Compact Pfitzer Juniper, 24 to 30 ins., heavy, sheared.....	2.50
750 Pfitzer Juniper, 18 to 24 ins., sheared.....	1.75
250 Hetz Juniper, 24 to 30 ins., heavy, sheared.....	2.50
250 Taxus hicksii, 24 to 30 ins., sheared.....	4.25
25 Magnolia liliflora, 4 to 5 ft., specimens.....	6.50
25 Magnolia liliflora, 5 to 6 ft., specimens.....	7.50
100 Summer Jasmine, 24 to 30 ins., B&B.....	1.15

Heavy Taxus Liners from 3-in. Pots

5000 Taxus, in variety: Cupidata, browni, intermedia, hicksi, from 3-in. pots; two summers under lath and irrigation.....	.33
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Shade Trees—Bare Root

250 Silver Maple, 6 to 8 ft., transplants.....	1.25
250 Silver Maple, 8 to 10 ft., transplants.....	1.50

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AWARD WINNING ROSES
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EUONYMUS VEGETUS

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12 to 15 ins.	\$ 75.00	\$725.00
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Write for complete Trade List.

KINGWOOD NURSERIES
MENTOR, O.

OBITUARY

Walter D. Bellingrath

Walter D. Bellingrath, who had established the well-known Bellingrath Gardens at Mobile, Ala., died in a Mobile hospital August 8. He had celebrated his 86th birthday anniversary two days earlier. Mrs. Bellingrath preceded her husband in death several years ago.

Mrs. Walter Hillenmeyer, Sr.

A heart attack caused the death of Mrs. Walter W. Hillenmeyer, Sr., at Lexington, Ky., August 23. She was the widow of Walter W. Hillenmeyer, a past president of the American Association of Nurserymen and at the time of his death, in 1935, a partner, with his brother, Louis E. Hillenmeyer, in the Hillenmeyer Nurseries, Lexington.

Walter W. Hillenmeyer was widely known not only for his connection with a family long established in the nursery business, but for his able services to various trade groups and civic enterprises. Now conducting the family business, which was begun in 1841, are Louis E. Hillenmeyer; Louis E. Hillenmeyer, Jr.; Walter W. Hillenmeyer, Jr.; Robert H. Hillenmeyer, and Donald J. Hillenmeyer.

Gilbert L. Abel

Gilbert Lee Abel, a 52-year-old Antioch, Calif., landscape contractor and nurseryman, died in a car-truck collision August 4. His widow, Mrs. Anna Belle Abel, also injured in the accident, is recovering.

Mr. Abel went to Antioch in 1828 and opened the Diablo Gardens in 1931, a business he continued to operate until his death.

He was a member of the Rotary Club, J-M Quarter Century Club and the Fraternal Order of Eagles. Surviving besides his widow are a daughter, Mrs. Mary Lou Martin; a son, Philip E.; a brother, Anthony C., and five grandchildren.

FIRM PLANS MECHANIZATION

A mechanization program that will make for improved efficiency in order assembly, packing and shipping is being started by Brookdale-Kingsway, Ltd., Bowmanville, Ont. In announcing the plans, Norman J. Scott, manager of the company, states that the changes are

not being developed to increase the volume of business, but to decrease the present labor force. There is no dissatisfaction with the amount of business now handled; however, the cost of doing that business under the existing arrangements is considered excessive.

The first addition, which is now under construction, is a storage cellar, 60x150 feet and 35 feet high. Of Quonset type, the building incorporates a second floor, where cartons will be assembled for shipping. The made-up cartons will be placed in chutes so that they will drop directly in front of the wrapping tables in the combined storage cellar and assembly room below.

Handling System

As soon as time permits, bins and an assembly line will be installed on the lower floor. All material will be packed out under number, insofar as the shippers are concerned. Orders will be gathered entirely by invoice numbers insofar as customers are concerned and by code numbers insofar as items are concerned. Plant labels will be used, of course, for the customers' assistance.

This new building adjoins the present storage cellars and, being within a few feet of a spur line of the Canadian National Railways that runs through the nurseries, will facilitate loading and unloading of carload shipments. When completed, the new building will have a loading dock, between the building proper and the railway siding, the complete length of the building and eight feet wide. Also to be built is another building of the same length as the first, but not so high, to be used as a garage and grading room.

Large, electrically operated doors are being installed on the ends of the new building. One end is on a town street, so transports can enter and drive the full length of the building inside.

Laminated beam construction is being employed, to give complete freedom for the use of floor space. No posts or pillars appear on the first floor, from wall to wall.

Insulation Method

The beams are sheeted with 1/4-inch tongue-and-groove lumber, covered with aluminum foil, which in turn is covered with two layers of 60-pound roofing, cemented. The entire area is to be covered with aluminum sheeting. The aluminum sheeting on the outside will serve as a heat reflector, and the aluminum foil on the inside, as a moisture barrier. Such construction, includ-

20,000 SPECIMEN EVERGREENS

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	1 1/2 to 2 ft.	2 to 2 1/2 ft.	2 1/2 to 3 ft.	3 to 3 1/2 ft.	3 1/2 to 4 ft.	4 to 4 1/2 ft.	4 1/2 to 5 ft.	5 to 6 ft.
Canadian Hemlock, Sheared	\$2.50	\$3.00	\$3.50	\$4.00	\$5.00	\$6.00	\$6.50	\$7.50 \$8.00
Juniperus pfitzeriana, Trimmed	2.25	2.50	3.00	3.50	...	...	...	...
Juniperus pfitzeriana Hill's Gold, Trimmed	2.25	2.50	3.00	3.50	...	...	...	...
Juniperus pfitzeriana H.P. Compact, Trimmed	2.50	2.75	3.25	3.75	...	...	...	...
Juniperus hetzi glauca, Sheared	2.00	2.50	3.00	...	...	...	...	...
Juniperus hibernica fastigiata	...	...	1.50	2.50	3.50	4.00	5.00	...
Juniperus vonehron, Trimmed	...	2.50	3.50	...	...	...	...	...
Taxus andersoni	5.00	6.00	7.50	...	...	...	...	...
Taxus wardi, Dwarf	5.00	6.00	7.50	...	...	...	...	...
Taxus hicksi	5.00	6.00	...	...	...	...	...	...
Taxus hatfieldi	6.00	7.50	...	...	...	...	...	...
Taxus browni	5.00	6.00	7.50	...	...	...	...	...
Taxus media, wymani, cuspidata	3.75	5.00	...	...	...	...	...	...
Woodward Arborvitae	2.00	2.50	...	...	...	...	...	...
Pyramidal Arborvitae	2.00	2.50	3.00	3.50	4.00	5.00	...	...
American Arborvitae	1.50	2.00	...	...	...	...	...	...
Barberry, Red or Green	.50	...	...	...	...	...	...	...
Pin Oak, field, 3-yr. transplants75	.80	.90	1.00	1.25
Red Dogwood (Cornus florida rubra)	...	2.50	3.00
Viburnum rhytidophyllum	...	2.50

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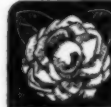
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Ash, American White, Per 10	Per 100
8 to 10 ft.	\$30.00
10 to 12 ft.	42.50

Beech, American,
Write for prices.

Birch, Cut-leaved Weeping,	
5 to 6 ft.	22.50
6 to 8 ft.	35.00
8 to 10 ft.	42.50

Birch, European White	
5 to 6 ft.	17.50
6 to 8 ft.	32.50
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Catalpa bungei,	
5 to 6 ft., 2-yr. heads.	22.00
6 to 7 ft., 2-yr. heads.	27.50

Catalpa speciosa,	
6 to 8 ft.	20.00

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18 to 24 ins., B.R.	16.50
2 to 3 ft., B.R.	220.00
3 to 4 ft., B&B.	42.50
4 to 5 ft., B&B.	60.00

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6 to 8 ft.	15.00
8 to 10 ft.	22.50
10 to 12 ft.	30.00

Gum, Sweet and Sour.

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5 to 6 ft.	15.00
6 to 8 ft.	22.50
8 to 10 ft.	30.00

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6 to 8 ft.	22.50
8 to 10 ft.	25.00
10 to 12 ft.	35.00

Maple, Norway,	
6 to 8 ft.	32.50
8 to 10 ft.	40.00

Maple, Scarlet,	
6 to 8 ft.	35.00
8 to 10 ft.	42.50

Maple, Schwedler's,	
6 to 8 ft.	37.50
8 to 10 ft.	45.00

Maple, Silver,	
6 to 8 ft.	20.00
8 to 10 ft.	25.00
10 to 12 ft.	32.50

Maple, Sugar,	
6 to 8 ft.	35.00
8 to 10 ft.	42.50

OAK—American White,	
Pin, Austrian, Turkey,	
Scarlet,	
5 to 6 ft.	35.00
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8 to 10 ft.	60.00

Poplar, Lombardy,	
5 to 6 ft.	5.00
6 to 8 ft.	6.50
8 to 10 ft.	8.50

WILLOW—Babylonica,	
Golden and Thulow	
Weeping,	
5 to 6 ft.	12.50
6 to 8 ft.	16.00

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ing the sheeting, has been declared the equivalent of four inches of cork for insulation.

Preparations have been made for the installation of an oil-burning heating unit, controlled by thermostats. The laminated beam areas will be used for ducts. Combined with this heating system will be an automatic cooling system, to be used, if required, in late spring.

The building will also be equipped with the differential thermostat exhaust-circulating fans as developed at the Ontario Agricultural College, Guelph, to take advantage of the outdoor temperatures for cooling purposes and, at the same time, keep the air in constant circulation within the building.

NEW YORK MEETING

[Concluded from page 18]

Tour and Steak Roast

Thursday, August 11, the nurserymen started with a tour of Green Valley Nursery, Hawthorne, where there were demonstrations of uses of cans, containers, burlap, etc., in the handling of nursery stock. Dr. Pridham gave a demonstration of mist propagation. This program aroused considerable interest and comment.

An elaborate cold buffet luncheon was served at the nursery, after which there was an organized tour of Detmer Nurseries and Arboretum, Tarrytown. The cavalcade concluded the tour at Rosedale Nurseries, where everyone was invited to relax with a cooling drink while watching the steak filets being prepared over charcoal tables.

For both days of the meeting, the approach of hurricane Connie was becoming more and more noticeable, with overcast skies, great heat and humidity. It was no surprise then to have intermittent drizzles just when the big event—the outdoor steak roast—was to begin. Chairs and tables were set up in the garage stalls; so when the rain really came, everyone was happily busy. If anyone went home hungry, it was not Kenneth Force's fault! M. M. E.

THEFT DURING STORM

August 12, the day after Rosedale Nurseries, Eastview, N. Y., were host to a group of members of the New York State Nurserymen's Association for a steak roast during their summer meeting, hurricane Connie descended on the nursery. While the wind and rain were raging, thieves took advantage of the situation to break into the nursery office and

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sales shed. In getting \$150 cash from the cash register, the intruders caused \$500 damage to the machine. A door, a window and an intercom system were also damaged in the process of breaking in, besides which there was theft of a Friden calculator valued at \$800, an electric adding machine that had cost \$330, an electric typewriter, a floor air circulator and a portable bar. State police found no clues the following day.

TEXAS LANDSCAPE MEN

[Continued from page 8]

J. Hill, Dallas. These new directors will serve with Theodore S. Daniel III, outgoing president, and the following holdover directors: Fred Buxton, Fort Worth; John Van Valkenburgh, Dallas, and J. B. Jenkins, Jr., Corsicana.

Landscape Tour

The association sponsored a tour of some of the best landscaped residences in Tyler at 2 p. m. August 22, while the T. A. N. tour of the Tyler municipal rose garden was in progress. Members of the T. A. N. and their wives who were interested in landscaping were invited to participate. Ray Breedlove, Breedlove Nurseries, Tyler, was in charge of the tour, assisted by George Fisher. One large bus and several cars carried the group of over 50 persons making the tour, which started at the beautifully landscaped home of Jesse Breedlove, Sr., and terminated at the Tyler municipal rose garden. This tour was so successful that it was later voted to have a landscape tour annually at each convention city. Ralph Ellis Gunn was selected to be in charge of the tour next year, when the T. A. N. convention will be held at Houston.

The Texas Landscape Association sponsored also, as is done annually, the professional speaker for the landscape session of the T. A. N. convention. Dr. Robert S. Reich, landscape architect at Louisiana State University, Baton Rouge, was the speaker this year. He appeared on the Tuesday morning program and gave an excellent talk on contemporary landscaping, with the aid of colored slides. His talk is reported in the account of the nurserymen's program in this issue.

Annual Meeting

The annual business meeting of the association was held in the Tyler room of the Blackstone hotel Tuesday afternoon. President Theodore S. Daniel III presided. Otto E.

BULBS FOR FALL SALES

	Per 100
STERNBERGIA LUTEA, top size, 10 cm. and up.	\$10.00
COLCHICUM AUTUMNALE MAJOR, top size.	25.00
COLCHICUM LILAC WONDER	30.00
	Per 1000
CROCUS SPECIOSUS, blue	\$18.00
CROCUS ZONATUS, top size	20.00
LILIUM CANDIDUM (Madonna Lilies),	Per case
Northern French Grown	
26 to 28 cm., (150 per case)	\$33.00
28 to 30 cm., (100 per case)	30.00
32 to 35 cm., (75 per case)	32.00
35 to 40 cm., (50 per case)	25.00
ROMAN HYACINTHS.	Per 1000
White, 12 to 13 cm.	\$68.00
White, 13 to 14 cm.	95.00
Blue, 14 to 15 cm.	60.00
Blue, 13 to 14 cm.	49.00
TULIPA CLUSIANA, top size	52.00
TULIPA CLUSIANA, first size	46.00

Also available: Paper White and Soleil d'Or Narcissi, White Callas, Lycoris Radiata and Aurea. Complete line of Dutch Bulbs. Ask for up-to-the-minute spot stock list now ready.

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Scherz, secretary-treasurer, made his annual reports, and the auditing committee reported.

A report was then heard from the special committee on licensing of landscape architects, given by Ralph Ellis Gunn, chairman. Considerable discussion was held on this matter, taking up especially the California and Louisiana laws and proposed laws of other states. Dr. Reich discussed the law in Louisiana and the work of the Louisiana Landscape Association. The committee was re-appointed to serve for the next two years.

The committee on new seals reported. New seals are being procured and each will have the name and association number of a member. Seals will be the property of the association and will be issued at no additional charge to the member. Contracts will be signed for the use of the seal for the term of membership in the association.

A discussion was held on issuing certificates for members. The membership still favors a certificate, and the committee will continue to work on this matter and report at the mid-winter meeting. After the constitution and bylaws committee report was heard, it was voted to make necessary major revisions in the by-laws and have such ready for the midwinter meeting.

M. E. Phillips, Jr., chairman of the membership committee, made a report, and it was voted to have five instead of three members henceforth on this committee. The midwinter meeting was set to coincide with the dates of the T. A. N. trade mart, scheduled to be held at Austin early in January, 1956.

Fred Teas, Bellaire, chairman of the nominating committee, presented the slate of new officers, which were elected as previously given. Ralph Ellis Gunn served with Mr. Teas on this committee.

The new president, Leonard Riggs, then took over the chair and gave a short talk on objectives of the association for the coming year, after which he appointed standing and special committees other than those already mentioned.

HOLLIES and magnolias will be the specialty of a new nursery business started by R. K. Stem, Silver Hills, New Albany, Ind.

CHANGE of address has been reported by Brashear's Nursery & Gift House, 7004 Government street, Baton Rouge, La. The previous address was P. O. Box 2015.

WISCONSIN LANDSCAPE GROUP

The Master Landscape Gardeners' Association of Milwaukee held its fourth annual summer demonstration meeting at Whitnall park, Milwaukee, Wis., August 17. Tractors, sprayers, seed spreaders and tree diggers were seen in actual operation.

Officers of the group have found such practical demonstrations extremely popular with the members and other interested landscape men and nurserymen. Many of the 200 or more persons who attended the meeting had traveled long distances, some from other states, to take advantage of the chance to see the equipment in action.

Members of the association were invited to try out the equipment themselves, and several of them took advantage of the opportunity. A cultivator that tipped over in the hands of a tester and a tractor which would not stop provided more than temporary amusement—they offered a greater basis for judging the operation of the equipment.

The county park commission had turned over several acres of an undeveloped section of Whitnall park to the group, with its permission to do any tree digging, moving, plowing or cultivating that the demonstrated equipment called for. As a result, the digging out of a large tree by an Adair tree digger and the moving of a balled and burlapped tree on a new Beseler tree mover were observed.

The demonstrations, with running commentary over a loud-speaker system, were limited to equipment newly developed in the past year. Each demonstrator was allowed approximately 20 minutes to show what his product could do and was available the rest of the day to answer questions.

The final item on the program was a tour of the Whitnall park gardens and test lawn plots, conducted by John Voight, superintendent.

A noontime picnic luncheon was provided for the landscape men and their families through the courtesy of the exhibitors. D. A. K.

RED BARN FARM, Sister Bay, Wis., is starting to grow perennials and native plants. The nursery is owned by William H. Beckstrom.

EL-EVEN GARDENS, Route 2, Box 504, Conroe, Tex., is a new nursery specializing in growing flowering shrubs. E. E. Jeffcoat is proprietor of the nursery, consisting of 27 acres.

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FALL-FLOWERING CROCUS ZONATUS: First size, 7/8 cms., \$1.20 per 100; \$9.00 per 1000; \$6.00 per Display Box of 600 bulbs. Top size, 8 cms. and up, \$1.50 per 100; \$12.00 per 1000; \$6.00 per Display Box of 400 bulbs.

HYACINTHS: Blue, White, Red, Pink, Mauve, Yellow, Mixed and their various shades. First size, 16/17 cms., \$7.50 per 100; \$70.00 per 1000; Display Boxes of 60 bulbs, \$4.50 each.

TULIPA FOSTERIANA RED EMPEROR: The ideal Red early garden tulips. First size, 10/11 cms., per Display Box of 200 bulbs, \$8.00; per 1000, \$35.00. Top size, 11/12 cms. per Display Box of 150 bulbs, \$7.50; per 1000, \$45.00.

COLCHICUM AUTUMNALE MAJOR: Jumbo-size bulbs, 22 cms. and up, \$14.00 per 100; \$135.00 per 1000; \$2.25 per Display Box of 15 bulbs.

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CROCUS: Blue, White, Mauve, Striped or Mixed. **Tiptop**, 10 cms. and up, \$2.50 per 100; \$21.50 per 1000; \$5.00 per Display Box of 200 bulbs. First size, 8/9 cms., \$2.00 per 100; \$17.00 per 1000; \$5.00 per Display Box of 400 bulbs.

YELLOW CROCUS: Tiptop size, 10 cms. and up, \$3.50 per 100; \$28.75 per 1000; \$7.00 per Display Box of 200 bulbs. First size, 8/9 cms., \$3.00 per 100; \$25.00 per 1000; \$12.00 per Display Box of 400 bulbs. Second-size Crocus, 7/8 cms., per Display Box of 600 bulbs (Yellow), \$14.00; other colors, \$10.00.

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SAN JOAQUIN CHAPTER

The August meeting of the San Joaquin chapter of the California Association of Nurserymen was held at the Yturri hotel, Fresno, August 18. Guests at the meeting included Mr. and Mrs. Ken Chase, Chase Gardens, Dinuba, and Mr. and Mrs. C. O. Rhame and family, Rhame Nursery, Clovis.

Syd Whitehorn, Fresno, comptroller for the C. A. N., installed the new officers as follows: President, Ivan Stribling, Merced; secretary-treasurer, Marion E. Gardner, Merced, and directors, Past President Howard Riggs, Madera, and William Moffet, Gustine, Vice-president Robert Moffet, Gustine, was absent on vacation.

State Convention Chairman Willis Stribling, Merced, brought the members up to date on the progress of the various committees working on the plans for the convention at Yosemite national park September 13 to 15.

It was decided not to hold a chapter meeting in September; the next meeting will be October 20, at Fresno.

Marion E. Gardner, Sec'y.

SAN MATEO SHOW FEATURE

A cooperative educational exhibit at the San Mateo county fair and floral fiesta, held August 5 to 13 at San Mateo, Calif., and reported in the preceding issue, was designed to show the public the relationship among nurserymen, landscape architects and landscape contractors. The groups which participated were the California Landscape Contractors' Association, the California Association of Nurserymen and the California Association of Landscape Architects, Peninsula chapter. Herbert Plath was chairman of the exhibit committee.

John Carmack, who drew up the plans for the display, designed a round plot for a seating area and a barbecue site surrounded by a circular border planting. The central area was covered with a roll-up sunshade of white canvas and included a long cushion-covered redwood bench facing the plantings.

The public was invited to enter the exhibit and sit on the bench while

studying the plantings, planned to demonstrate the effects of varied foliage texture when California's evergreen shrubs are not in bloom. All plants were labeled with both the common and botanical names. Cards also gave facts such as ultimate height, hardiness, drought resistance or moisture requirements, preference for sun or shade and color of blooms and fragrance, if any. The display was popular; many visitors were seen jotting down notes about the planting. About 90,000 persons attended the fiesta.

The exhibit won a first prize for the nurserymen for "an educational display of plant material adapted to local conditions." The landscape men received a first prize and the landscape architects second on "an educational display showing combined use of garden building materials and plant materials suitable for local conditions."

I. N.

CALIFORNIA NOTES

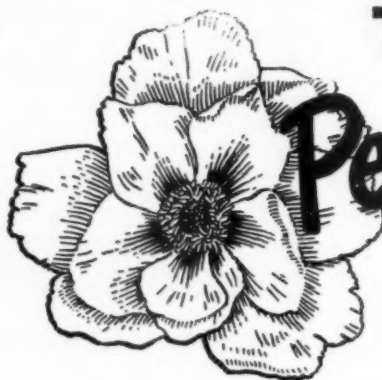
Members of the garden club of Los Altos were guests at the nurseries of Vetterle & Reinelt, Antonelli Bros. and other firms at Capitola, recently. The group met for a picnic lunch and then visited the nurseries for tours and lectures.

San Francisco garden clubs held their midsummer flower show in the rotunda of the City Hall August 25 and 26. Featured flower was the dahlia, which is also the official flower of the city. This year several of the area's ornamental nurserymen entered noncompetitive exhibits.

Palo Alto arborists are already making plans for the meeting of the Western chapter of the National Shade Tree Conference, which will be held there next May.

Two bay area arborists were elected to offices of the National Shade Tree Conference at its recent Santa Barbara meetings. They are Allen H. Reid, Palo Alto landscape architect, who is president of the Western chapter, and Millard Blair, Mountain View tree surgeon, who was elected editor of the group's newsletter.

Peters & Wilson Nursery, Millbrae, has been moved to a new lo-



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cation not far from the site where it had been for many years. A completely new garden supply building and offices, new storage facilities and a greatly enlarged sales area are among the features.

George H. Greeley has been given approval by the planning commission for the use of land for a commercial nursery at Los Altos.

The Los Altos Nursery, Los Altos, donated \$500 worth of labor and materials toward the building of a Japanese garden in the Los Altos community park. The local garden club donated \$1,000 cash, and several civic groups added to the total available for the development. Included in the plan are a Japanese temple, a fish pond, a redwood fence to enclose it all and cherry and Japanese maple trees.

California nurserymen will benefit from the following donations for research made to the University of California in the past month: Germain's Plant & Seed Co., Twisters for the breeding work of vegetables for home use; Stauffer Chemical Co., ferric sulphate for fertilizer studies; California Avocado Society, cash for clonal root stock studies, and Jack P. Corkins, phygon XI, for studies in the control of algae in irrigation reservoirs.

Northern California fruit growers feel they have been unfairly dealt with this summer. Frost and rains lowered yields and reduced the quality of the fruit, while canners and processors have offered less for the fruit than for many years.

A. N. McClenahan, Palo Alto tree surgeon, and family have returned from an extended vacation in the high Sierra country. W. B. B.

NEW NORTHWEST GROUP

A new organization of nurserymen to be known as the Northwest Washington Nurserymen has been formed and will meet monthly. Members are drawn from nursery and landscape men of Snohomish, Skagit and Whatcom counties in the northwest area of Washington state. They will meet at 8 o'clock the first Tuesday of each month at Pohn Landscaping Co. offices at Everett.

Wayne Cockburn, Marysville Nursery Co., Marysville, is president; E. W. Pohl, Pohl Landscaping Co., vice-president, and John Holtum, Sunnyside Nursery, Everett, secretary-treasurer. The organization invites membership for organized approach to mutual problems by nurserymen, growers of bedding plants and herbaceous material and landscape architects and contractors.

M. B. S.



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STAN SAYS

Bambusa Metake

Bambusa metake, known as Pseudosasa japonica (if you do not mind, I will continue to call this plant Bambusa metake) is a hardy bamboo that grows in the shade. It thrives in Pittsburgh, so it will stand at least 5 to 10 degrees below zero. I recommend moving this plant in the spring. I moved some in the fall, and they did not look well all the next summer; however, they did not die.

A good deal of this bamboo is grown at Washington, D. C., where it is used effectively. Some experts say that it may get away from you, but I have never had that experience. It spreads, but not dangerously so. I certainly should not recommend its use in the south, where there is such a choice variety of plants that cannot be grown in the north. Do not plant it in a windswept location. It grows three to four feet high.

Buddleia White Queen

Buddleia White Queen is not suited to the average city garden since (in Pittsburgh) it grows at least 10 feet high, and its main stem becomes a heavy trunk. It blooms profusely and should be suitable for park plantings.

Hydrangea Quercifolia

Hydrangea quercifolia, oak-leaved hydrangea, was just starting to bear panicles of flowers at New Bethlehem (in western Pennsylvania foothills) June 17, 1955. This is one of the best shade shrubs that we have. This shrub thrives four feet from a pin oak (36 inches in diameter); you cannot beat that.

The 5-lobed leaves, like those of the red oak, are seven inches wide by nine inches long (not including petiole). November 22, 1954, I saw some of these leaves (after several hard freezes) that were still on the plant and good-looking. Its unusual leaves create as much interest as the flowers. This plant will stand 20 degrees below zero. The flowers have that fresh, rugged look and, of course, they are almost white, like most hydrangeas. This is a fine shrub for wild garden areas.

This shrub is rare; few nurseries grow it, because it is hard to propagate. Plants 18 to 24 inches high are available in a few nurseries in this country. This plant does not grow over four and one-half to six feet in height.

NEW BULLETINS

CALIFORNIA JOURNAL

Volume XVI, No. 3 of the Journal of the California Horticultural Society, dated July, 1955, leads off its contents with several interesting features. The first, "Fire Followers," by Lester Rowntree, discusses the acceleratory affects of fire on native growth and the pattern that marks the inflow of growth on burned-over land. A second feature contains a list of stump sprouters among native California shrubs and trees as noted by L. L. Edmunds, who has worked with these subjects for many years. For a third item, Robert D. Raabe, of the University of California, Davis, has provided an illustrated article titled "Diseases of Ornamental Plants." Donald R. Pratt next presents a substantial list of rhododendrons that have been recommended for the bay area. Copies of the Journal can be purchased from the society for 75 cents.

BULLETIN ON LAWNS

Lawns are the subject of a 26-page bulletin recently published by the Connecticut agricultural experiment station, New Haven. Authors of the new bulletin, "Lawns," are H. G. M. Jacobson, H. A. Lunt, F. W. Meyer and J. C. Schread, all associated with the experiment station. Main topics covered in the report are soil conditions, lawn maintenance, weed control, injuries and diseases, insect pests and lawn making.

The Connecticut experiment station has carried on lawn studies since 1886, when it first started a grass garden at Manchester, Conn., to compare the usefulness of various species of grasses for that region. This bulletin, reporting the results of the station's experiments in the establishment and maintenance of lawns, supersedes Circular 169, "How Good Lawns Grow," which is now out of print.

NITROGEN FERTILIZERS

Nitrogenous fertilizer solutions are the subject of a booklet by W. B. Andrews, agronomist at the Mississippi State College and experiment station, State College, Miss. The booklet, a reprint of chapter 2 in the revised edition of "The Response of Crops and Soils to Fertilizers and Manures," published in 1954 and

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Globe Locust
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Japanese Lace-leaved Maple
Palmatum Rubrum Maple
Faassen's Black Maple
Norway Maple
Red Maple (rubrum)
Schwedler Maple
Silver Maple
Red and Scarlet Oak
Flowering Peach

Plane Tree, European
Flowering Plum
blireiana, Newport, pi-sardi, Thundercloud,
Vesuvius, cistena, triloba
Redbud (canadensis)
Sweet Gum, B. R. and B&B
Tulip Tree
Willow
Azalea mollis
Azalea Altaglarense
California Privet
English Privet
Lodense Privet
Arborvitae, 12 varieties
Juniper, 22 varieties
Spruce, Dwarf Alberta
Spruce, Colorado Blue and Green
Spruce, Norway
Taxus cuspidata (Japanese)
Taxus capitata (Japanese)
Taxus brevifolia
Taxus Browni
Taxus hatfieldi

Taxus hicksii
Taxus, Irish green and golden
Taxus, English, upright
Andromeda, Japanese
Aucuba, Japanese
Boxwood
Camellias
Cotoneaster
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Holly, English
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recently reviewed in these columns,
contains a summary of the compara-
tive information on anhydrous am-
monia and ammonium nitrate. Data
on ammonium nitrate in solution, as
well as a critical analysis of the in-
formation on other nitrogenous fer-
tilizers in solution, are also present-
ed. Copies of the booklet can be ob-
tained from Mr. Andrews for 50
cents each.

FARMSTEAD PLANNING

Illinois farmers interest in increas-
ing the attractiveness of farmsteads,
while making them more efficient
units at the same time, may well be
stimulated by a practical, clearly
presented discussion of some of the
more prominent aspects of the sub-
ject in circular 732 of the University
of Illinois college of agriculture ex-
tension service in agriculture and
home economics. Titled "Planning
Your Farmstead," this 16-page
pamphlet, about 8½x10¾ inches in
size, briefly discusses arrangement,
buildings, landscaping and wind-
breaks. Emphasis is placed on plan-
ning for both present and future
needs. Good use is made of diagrams
for explaining plans for efficient lay-
out of facilities.

The publication was prepared by
Keith H. Hinchcliff, Lawson B. Cul-
ver, Leonard R. Kyle and Harleigh
R. Kammerer.

HOLLY PROPAGATION

Roger W. Pease, assistant horti-
culturist at the West Virginia Uni-
versity agricultural experiment sta-
tion, Morgantown, is the author of
the station's circular No. 97, titled
"Rooting Holly Cuttings in a Win-
dow Box." The 20-page booklet is
directed to homeowners who wish to
start a few plants using simple equip-
ment. However, anyone propagating
these plants may find here useful
suggestions relating to cuttings, root-
ing media and temperatures.

ANDROMEDA LACE BUG

With the exception of red leaf
spot and occasional root rot, andro-
medas have until recently been al-
most completely immune from at-
tacks by insects and diseases. How-
ever, during the middle 1940's, a new

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WHOLESALE

• GENERAL NURSERY STOCK

lace bug, probably of Japanese origin, was discovered ruining the introduced species of andromeda, Pieris japonica.

Control of the lace bug is described in a recent circular, No. 194, issued by the Connecticut agricultural experiment station. The author, John C. Schread, station entomologist, surveys the distribution of the pest and states that both the adults and nymphs damage infested plants by sucking the sap from the underside of the leaves, leaving the foliage mottled with grayish-yellow blotches. Malathion, DDT, chlordane, lindane, heptachlor, aldrin, dieldrin and endrin all gave excellent control of the lace bug in tests made. Spraying between May 25 and June 1 is recommended.

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For full-time employment with modern nursery landscape business in east coast community with excellent opportunities. Must have own car and training in plant materials from reputable landscape school or practical experience with same. Must have training in or experience with principles of landscape design. Apply by letter stating age, training, experience, references and enclosing picture. State earliest date available. Write to Box 173, care of American Nurseryman.

HELP WANTED

Young, experienced azalea nurseryman with family wanted as assistant manager for South Carolina plantation. Good wages and attractive home. Only best of references. Reply to Box 210, care of American Nurseryman.

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Aggressive and cooperative landscape salesman with proved sales record for fast-developing area in midwest. Ability to draw plans an advantage. Cover experience in first letter. Address replies to Box 186, care of American Nurseryman.

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Nursery worker, German, 25 years old, familiar with propagation, grafting and raising of conifers, roses, fruit trees, rhododendrons as well as with ornamental plants, wishes to work in America in 1956. Please write by air mail to: W. HASCHKE
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Experienced landscape foreman. Must have ability to handle labor and work from plans. Address replies to Box 187, care of American Nurseryman.

BUSINESS OPPORTUNITY — Professor partly occupied by teaching duties nine months of the year owns 33-acre nursery in northern New Jersey which he operates as a part-time venture. Prosperous business conditions have resulted in more business than can be handled on a part-time basis and delivery of orders are two months behind schedule.

Owner seeks working partner to share half of profits after payment of fair living wage. Investment required: \$6000 in cash or notes for half interest in present stock with retail value of approximately \$48,000. Prefer college graduate with initiative and ability to take complete charge. Over 10 acres ready for planting and money available for new ventures in planting and propagating.

Interested parties please contact Box 192, care of American Nurseryman.

FOR SALE—Nursery. Established retail and wholesale business, plus landscape clientele. 4 acres with large colonial home and 6 greenhouses. Located at crossroads of several large communities on heavily traveled highway in eastern Rhode Island and southeastern Massachusetts. Will sell stock on consignment and finance sale of business and property. Reply GLENROSE REALTY, P. O. Box 62, Riverside 15, R. I.

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Immediately available, good 4x6-ft. cypress hotbed sash, glazed, ready for use. \$3.00 each, cash, F.O.B. point of storage, as is. Also some similar sash which requires minor repairs. \$2.00 each; same terms. Will help load. Located at Muscatine, Ia. Also 25,000 used, but in good condition, spring steel triangular tomato basket clamps. Contact L. N. Kloppman, H. J. HEINZ CO., Pittsburgh, Pa. or R. E. Ford, H. J. HEINZ CO., Muscatine, Ia.

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Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, September 16.

AZALEAS

WE HAVE OVER 200,000 AZALEAS IN THE FIELD TO OFFER FOR SALE THIS FALL.

They are all under irrigation and have been sprayed regularly.

Amoenae
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00.
Coral Bella, can be used for forcing.
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00.

Hinodegiri, can be used for forcing.
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00; 30-in., \$6.00; 36-in., \$7.50.

Ledifolia Alba
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00.

Snow, can be used for forcing.
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25.

Maxwellii
6-in., 50c; 8-in., 75c; 10-in., \$1.00.
Kaempferi, **Pedra**, **Othello**, **Salmon Beauty**, **Orange Queen**
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00; 30-in., \$6.00; 36-in., \$7.50.

Rooted cuttings of all the above, \$50.00 per 1000.

We also have the following varieties in the smaller sizes: **Louise**, **Favorite**, **Beethoven**, **Johann Strauss**, **Rose Bud**, **Rose Greely** and **Addy Wery**.

Our Azaleas are well-budded and dark green; they are bushy and are well-shaped. Come out and look before you buy.

BAIER LUSTGARTEN FARMS AND NURSERIES
Jericho Turnpike, Middle Island, L. I., N. Y.
Tel: Yaphank 4-3444

AZALEAS

Azalea Little Beauty (new), flashy light rose-red double. Compact, upright grower. Suitable for foundation planting or forcing.

1-yr., T., 4 to 6 ins., 10 for \$4.00; 100 for \$35.00; 1000 for \$300.00. 2-yr., T., 6 to 8 ins., 10 for \$6.00; 100 for \$55.00; 1000 for \$550.00. 3-yr., T., 8 to 10 ins., 10 for \$17.00; 100 for \$150.00.

Azalea Purple Trumpet (new), large, ruffled rhodamine-purple. Vigorous grower, good foliage.

4 to 6 ins., T., 10 for \$4.00; 100 for \$30.00. **Azalea Chopin** (new), large, ruffled bright rose. Heavy texture, vigorous grower, glossy foliage.

6 to 8 ins., T., 10 for \$6.00; 100 for \$50.00. 8 to 10 ins., T., 10 for \$7.50; 100 for \$70.00.

Azalea Palestrina, hardiest white; hardier than **Latifolia Alba**.

5 to 7 ins., T., 10 for \$3.00; 100 for \$25.00. 10 to 12 ins., B&B, 10 for \$15.00; 100 for \$125.00.

Helena Vuyk, medium pink; large florets, vigorous grower; low spreading habits.

5 to 7 ins., T., 10 for \$3.00; 100 for \$20.00. **Shibeli**, orange-red; very hardy, vigorous, upright grower.

5 to 7 ins., T., 10 for \$3.00; 100 for \$20.00. **Poukanensis**, light purple; very hardy.

7 to 10 ins., T., 10 for \$7.50; 100 for \$65.00. **Evergreen Azaleas**, mixed colors; pink, red, white, purple.

3-yr., T., 6 to 8 ins., 10 for \$6.50; 100 for \$55.00. 4-yr., T., 10 to 12 ins., 10 for \$12.50; 100 for \$100.00.

Sherwood Red, bright scarlet.

5 to 7 ins., T., 100 for \$20.00; 1000 for \$180.00.

Hino-Crimson, bright crimson; low, compact grower.

6 to 6 ins., T., 10 for \$3.00; 100 for \$20.00.

GIRARD BROS. NURSERY
Geneva, O.

AZALEAS

HINO-CRIMSON AND HINODEGIRI
Heavy, well-budded stock for landscaping or forcing; 6 to 8 ins. up to 12 to 15 ins. for pickup at nursery. See this choice material or write for price list.

LEHIGH VALLEY NURSERIES, INC.
1746 Linden St. Bethlehem, Pa.

AZALEAS, ORDER NOW.

2 1/2-in. transplants, in flats, \$14.00 per 100, \$130.00 per 1000; **Coral Bella**, **Hinodegiri**, **Sweetheart Supreme**, **Hexe de Saffelare**, **Pink Pericat**, **Amoenae Superba**, **Pinocchio**.

Same varieties as above, 3 to 5 ins., \$35.00 per 100; 4 to 6 ins., \$45.00 per 100.

Grafted indicas, pot-grown, ready for benching. Delivery now, \$40.00 per 100, \$375.00 per 1000. 1-yr., grafted indicas, bench-grown, heavy branched, \$55.00 per 100, \$500.00 per 1000. Varieties: **Jean Haerens**, **Triumphe**, **Rubis**, **Vervaeana**, **Vervaeana Alba**, e.o.

Where quality comes first and customers

DIRKMAAT AZALEA FARM
P. O. Box 453, 516 Stevens Ave.
Ridgewood, N. Y.

AZALEA HINODEGIRI

Snow, **Coral Bella**, **Salmon Beauty**, 10 to 12-in. heads, grown in 6-in. pots; fall delivery, \$1.25 each; spring, after February 15, \$1.50. Bed-grown, 12 to 15-in. heads, fall delivery, \$2.00 each.

TRITSCHLER'S GREENHOUSES
4425 W. Lawn Dr. Nashville 9, Tenn.

HINO-CRIMSON

Thousands of beautiful **Hino-Crimson** and other evergreen Azaleas. Dense, bushy, well-budded—for landscape planting and forcing. Order now, to be sure of getting what you want, as there never are enough to meet the demand.

THE TANKARD NURSERIES, Exmore, Va.

AZALEAS FOR FORCING AND LANDSCAPE PLANTING
Write for list of varieties, sizes and prices.
LEVICK NURSERY CO.
R. D. 3, Bridgeton, N. J.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

BERRY PLANTS

RASPBERRY PLANTS

Fall 1955 and spring 1956 prices.

New Durham everbearing red Raspberry, bears mid-August to mid-October. Longest picking season of all red Raspberries and off season when prices are highest. Cut all canes back each fall or spring. Crop comes on new growth each year. Up to 3/16-in., \$55.00 per 1000; 3/16-in. to 1/2-in., \$65.00 per 1000; 1/2-in. up, \$75.00 per 1000.

Madawaska and **Gatineau** red Raspberries, both of Canadian origin, and ripen two weeks ahead of **Latham**, \$75.00 per 1000; **September** everbearing, \$100.00 per 1000.

All No. 1 plants. Above prices F.O.B. **Bradford, Mass.** Terms cash with order from unknown customers. To those of approved credit, terms are net 30 days from date of shipment.

WALTER K. MORSS & SON
Bradford, Mass.

SMALL FRUIT PLANTS FOR EARLY FALL DELIVERY.

3,000,000 Strawberry plants

500,000 Boysenberry plants

50,000 Youngberries

100,000 Dewberries

50,000 Raspberries

50,000 Grape

Write for wholesale price list.

BASHAM NURSERY

Mountainburg, Ark.

NEW BURGUNDY RASPBERRY

PROVED AND TESTED FOR

HIGH QUALITY

UNDER ALL CONDITIONS

WRITE FOR PRICE LIST

LORETTO BROS. FRUIT & NURSERY FARMS
Box 57 North Collins, N. Y.

STRAWBERRY PLANTS, FALL DELIVERY

Double inspected, northern-grown: **Dunlap**, **Blakemore**, **Premier**, **Giant Robinson**, 1000, \$9.00; 5000, \$42.50. **Giant Gem**, **Streamliner**, **Superfection** (everbearing), 1000, \$18.00. Young, healthy, moss-packed; guaranteed to reach you in good growing condition.

IOWA NURSERY, FARMINGTON, IA.

PIXWELL GOOSEBERRIES

25,000 2-yr., No. 1, mostly extra heavy, 5c to 7 1/2c per plant, if you take them all and dig them yourself. Will let go for 20,000. Will furnish tractor and operator free of charge for digging.

SCHWAB FRUIT FARM & NURSERY
220 N. 5th St. Mankato, Minn.

BULBS AND TUBERS

Irises and Day Lilies Per 100
Dwarf Irises, 10 varieties, labeled \$15.00
German Bearded Irises, 100 varieties, labeled 20.00
Siberian Irises, **Perry's Blue**, **Florie**, **Ridler**, **Caesar's**, **Brother**, **Snow**, **Queen**, **Tunkenhook** 18.00
Iris Spuria ochroleuca gigantea 25.00
Leonian hybrid Day Lily 20.00
Hyperion Day Lily 25.00
25 any kind at 100 rate.
Van de Moortell Perennial Gardens, 7250 18 1/2 Mile Rd., Utica, Mich.

A NEW BULB LIST EVERY MONTH! WHOLESALE ONLY! COMMERCIAL VARIETIES OF FLOWER BULBS ALL THROUGH THE YEAR! OUR LIST IS READY FOR THE ASKING. MAILINGS EVERY DAY! NEW FALL BULB LISTING READY NOW. HARTFORD FARMS, HARTFORD, MICH.

OUR FALL LIST CONTAINS THE WIDEST SELECTION OF IMPORTED AND DOMESTIC BULB STOCK AVAILABLE IN THIS COUNTRY. A COPY IS YOURS FOR THE ASKING. GROWERS EXCHANGE, INC. "Serving the World's Best Growers" Box 396 Farmington, Mich.

DAY LILIES
Send for wholesale list.
GRUNDY'S GARDENS
Anton, Tex.

AUGUST DAFFODILS
Blooming size bulbs, doz., \$2.00; 100, \$5.00.
MRS. R. L. ROBINSON, Greenville, Ga.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS
Nice, young stock from 2-in. pots. Over 50 fine varieties. Our selection, 20 of a variety. Your choice of tall or short kinds. \$12.00 per 100.
RUSSELL BREECE, R. 3, Delaware, O.

COTONEASTERS

COTONEASTER PRAECOX
This is one of the hardest **Cotoneasters** which went through 20 degrees below zero without any harm. It has large berries like cranberries which come in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for 1955:

Per 100 Per 1000
Strong, 1-year seedlings, branched, 4 to 8 ins. \$25.00 \$225.00
Transplants, 2-year, 8 to 12 ins. 50.00
Cotoneaster horizontalis, strong 1-year seedlings 10.00 90.00
Cotoneaster divaricata, 1-year seedlings, 6 to 8 ins. 10.00 90.00
Turner Rd. C. HOOGENDOORN
Newport, R. I.

DELPHINIUMS

DELPHINIUM BELLADONNA IMPROVED
August sown field seedlings
\$4.00 per 100, \$36.00 per 1000.
RUSSELL BREECE, R. 3, Delaware, O.

EVERGREENS

PINE, SPRUCE SEEDLINGS AND LINERS 100 1000
Red Pine, 4-yr., 10 to 20 ins. .. \$ 6.00 \$30.00
Austrian Pine, 3-yr., 8 to 14 ins. .. 5.00 20.00
Scotch Pine, 3-yr., 8 to 14 ins. .. 5.00 25.00
Colorado Blue Spruce, 3-yr., 5 to 10 ins. 6.00 40.00
Juniperus glauca Hetzi, 2-yr., T., 5 to 10 ins. 40.00
Andorra Juniper, 2-yr., T., 5 to 10 ins. 40.00
Spreading Jap. Yew, 3-yr., T., 6 to 12 ins. 40.00
PAINT CREEK NURSERIES
R. D. 1, Shippenville, Pa.

EVERGREEN LINERS AND CUTTINGS
POT-GROWN AND TRANSPLANTS

Each—Per 100 Per 1000

Arborvitae, American, dark green, 1-yr., 6 to 7 ins.	..\$0.22	..\$0.20
Arborvitae, globe Woodward, 5 to 6 ins.	..22	..20
Arborvitae, pyramidal, 1-yr., 6 to 7 ins.	..22	..20
Juniperus Pfitzer Armstrong, 1-yr., 3 to 4 ins.	..24	..22
Juniperus chinensis Pfitzeriana, 1-yr., pots, 6 to 7 ins.	..22	..20
Juniperus chinensis Pfitzeriana, 2-yr., transplants, 6 to 9 ins.	..29	..27
Juniperus glauca Hetzi, 1-yr., 6 to 7 ins.	..20	..18
Taxus cuspidata, 2-yr., 6 to 9 ins.	..24	..22
Taxus Brown, 2-yr., 5 to 6 ins.	..24	..22
Taxus media No. 8, 2-yr., 6 to 9 ins.	..24	..22
Taxus Andersoni, 2-yr., 6 to 9 ins.	..24	..22
Eucynomus alatus compactus, 1-yr., 6 to 7 ins.	..18	..16
Korean Boxwood, 1-yr., 3 ins.	..20	..18
Viburnum, leather-leaf, 1-yr., pots, 3 to 4 ins.	..27	..25

HEAVY ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

Boxwood, Korean, hardy	..\$0.09	..\$0.08
Boxwood, sempervirens, 2 to 3 ins.	..07	..06
Eucynomus alatus compactus, 5 to 6 ins., 2-yr., branched	..09	..08
Eucynomus erectus, 3 to 4 ins.	..07	..06
Eucynomus patens, 4 to 5 ins.	..07	..06
Juniperus chinensis Pfitzeriana, 6 to 7 ins.	..13	..12
Juniperus glauca Hetzi, 5 to 6 ins.	..11	..10
Arborvitae, pyramidal, 5 to 6 ins.	..11	..10
Arborvitae, globe, 4 to 5 ins.	..11	..10
Arborvitae, American, dark green, 5 to 6 ins.	..11	..10
Taxus Hicksi, 5 to 6 ins.	..11	..10
Taxus cuspidata, 5 to 6 ins.	..11	..10
Taxus media, spreading, 5 to 6 ins.	..11	..10
Taxus Andersoni, 5 to 6 ins.	..11	..10
Taxus media No. 8, 4 to 5 ins.	..11	..10
Taxus Brown, 4 to 5 ins.	..11	..10
Taxus Andersoni, 4 to 5 ins.	..11	..10
Taxus Hatfieldi, 4 to 5 ins.	..11	..10

Terms: 2 per cent discount and free packing for cash with order. Our stock guaranteed 100 per cent satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

WHOLESALE PRICES

Fall of 1955—spring of 1956.

Pfitzer Juniper, 18 to 24 ins. (sheared)	..\$2.00
24 to 36 ins. (sheared)	..3.00
48 ins. (sheared)	..5.00
Pfitzer's Hetz Juniper, 18 to 24 ins.	..1.75
24 ins. (sheared)	..2.50
Hicksi Yew, 18 to 24 ins.	..3.00
24 to 36 ins.	..4.00
Andorra Juniper, 30 to 36 ins. (sheared)	..3.00
48 ins. (sheared)	..3.75
American Arborvitae, 4 1/2 ft.	..4.00
4 ft.	..3.50
Globe Arborvitae, 12 ins.	..1.50
24 ins.	..2.75
Pyramidal Arborvitae, row-run, 2 1/2 to 4 1/2 ft.	..2.00
24 to 30 ins.	..2.00
30 to 36 ins.	..2.25
36 to 42 ins.	..2.50
42 to 48 ins.	..3.00
48 ins.	..3.25
4 to 4 1/2 ft.	..3.75
Mugho Pine, 12 to 15 ins. (sheared)	..2.00
15 to 18 ins. (sheared)	..2.50
18 to 24 ins. (sheared)	..3.25
Hill Dundee Juniper, 30 to 36 ins.	..3.25
Black Hills Spruce, 18 to 24 ins.	..2.25
24 to 36 ins.	..2.75
Linara, 2-yr., bed-grown, heavy, excellent root system, 6 to 12 ins.	..3.00
Pyramidal Arborvitae, Andorra Juniper, American Arborvitae, Globe Arborvitae, Irish Juniper, Hetz Juniper, Pfitzer Juniper and Hicksi Yews	..300 to 300, 300 each.
	..300 to 1000, 25c each.
	..1500 mixture, 25c each.

Add 25c per tree for all orders under 25 of each variety.

Above priced F.O.B. Albion. We will deliver at 30c per mile, figuring from our nursery to your nursery.

TERMS: CASH ON DELIVERY.

SHARP'S EVERGREEN NURSERY

Albion, Mich.

Nursery located 3 miles S. W. of Albion

off Irwin Ave., Rd.

Phone 6370-4090 or 2367

EVERGREENS

Per 1000

Scotch Pine, 2-yr., 2 to 4 ins.	..\$10.00
2-yr., 4 to 6 ins.	..20.00
3-yr., 8 to 10 ins.	..30.00
Austrian Pine, 2-yr., 3 to 6 ins.	..20.00
Red Pine, 2-yr., 2 to 5 ins.	..20.00
Norway Spruce, 2-yr., 2 to 4 ins.	..15.00
Colorado Blue Spruce, 2-yr., 2 to 4 ins.	..20.00
2-yr., 5 to 9 ins.	..40.00

CHAPMAN'S NURSERY

553 Church St.

Indiana, Pa.

EVERGREEN LINERS

Each, per 100 1000

BERCKMANS' BIOTA A. N.	..\$0.25	..\$0.20
2-in. pots, 1-yr.	..55	..50
Field-grown, 3-yr.	..40	..35
Field-grown, 2-yr.	..60	..55
Field-grown, 4-yr.	..30	..25
WOODWARD GLOBE ARBORVITAE	..20	..16 1/2
2 1/2-in. pots, 1-yr.	..60	..55
Field-grown, 2-yr.	..30	..25
EXCELSA ARBORVITAE	..20	..16 1/2
Thumb pots, 2-yr.	..40	..35
Field-grown, 2-yr.	..22	..16 1/2
TAXUS COLUMNARIS	..18	..15
2 1/2-in. pots, 1-yr.	..22 1/2	..18 1/2
Field-grown, 2-yr. (heavy)	..45	..40
Field-grown, 1-yr.	..30	..25
Rooted cuttings, 1-yr.	..12	..10
BLUE PFTZER JUNIPER	..25	..20
2 1/2-in. pots, 1-yr.	..45	..40
Field-grown, 2-yr.	..30	..25
Field-grown, 1-yr.	..13	..12
ARMSTRONG PFTZER JUNIPER	..22 1/2	..18 1/2
2-in. pots, 1-yr.	..26 1/2	..22 1/2
Field-grown, 3-yr.	..45	..40
HETZ GLAUCIA JUNIPER	..22 1/2	..18 1/2
2 1/2-in. pots, 1-yr.	..27 1/2	..23 1/2

TERMS: Cash with order. Free packing. Orders for spring field for 1/2 deposit. 300 plants of one variety at 1000 rate. Not less than 50 of a variety.

VOGE NURSERY

New Lebanon, O.

EVERGREEN WHOLESALE PRICE LIST

FALL 1955, SPRING 1956

F.O.B. Nashville

Globe Arborvitae, 12 to 15 ins. B&H	..\$1.25
Juniperus hibernica Ashfordi, 24 to 30 ins.	..1.25
hibernica Ashfordi, 24 to 4 ft.	..2.50
hibernica fastigiata, 24 to 30 ins.	..1.25
hibernica fastigiata, 30 to 36 ins.	..1.50
hibernica fastigiata, 3 to 4 ft.	..2.00
hibernica fastigiata, 4 to 5 ft.	..2.50
English Junipers, 4 to 5 ft.	..3.00
English Junipers, 5 to 6 ft.	..4.00
Pfitzer Junipers, 15 to 18 ins.	..1.50
Pfitzer Junipers, 18 to 24 ins.	..2.25
Pfitzer Junipers, 24 to 30 ins.	..2.75
Pfitzer Junipers, 30 to 36 ins.	..3.25
Golden Spreader J., 15 to 18 ins.	..1.50
Golden Spreader J., 18 to 24 ins.	..2.00
Hemlocks, 24 to 30 ins.	..2.00
30 to 36 ins.	..2.75
36 to 42 ins.	..3.50
42 to 48 ins.	..4.50
4 to 5 ft.	..6.00
5 to 6 ft.	..7.50

BROAD-LEAVED EVERGREENS

Box Dahoon (Cassia Holly)

18 to 24 ins.	..\$2.00
24 to 30 ins.	..2.50
30 to 36 ins.	..3.50
Hex rotundifolia, 15 to 18 ins.	..1.50
18 to 24 ins.	..2.00
Elaeagnus pungens and Fruitland	..2.25
30 to 36 ins.	..2.50
Eucynomus patens, large leaved	..1.50
18 to 24 ins.	..2.00
24 to 30 ins.	..2.50
patens (compactus), 15 to 18 ins.	..1.50
patens, small-leaved; 18 to 24 ins.	..2.00

TSCHINKEL'S GREENHOUSES

4425 W. Lawn Dr. Nashville 9, Tenn.

SEEDLINGS AND TRANSPLANTS

Cash, please.

Variety and size	Per 100	Per 1000
Fir, Balsam, 2 to 4 ins. S.	..\$3.00	..\$20.00
Fir, Blue Douglas, 4 to 6 ins. S.	..4.00	..30.00
Fir, Blue Douglas, 6 to 8 ins. S.	..5.00	..40.00
Larch, European, 12 to 18 ins. S.	..5.00	..40.00
Pine, Austrian, 2 to 4 ins. S.	..3.00	..20.00
Pine, Austrian, 6 to 8 ins. T.	..10.00	..80.00
Pine, Dwarf Mugho, 2 to 4 ins. S.	..3.00	..20.00
Pine, Fontinalis, 4 to 6 ins. S.	..3.00	..20.00
Pine, Red, 2 to 4 ins. S.	..3.00	..20.00
Pine, Red, 4 to 6 ins. S.	..4.00	..30.00
Pine, Red, 6 to 8 ins. T.	..10.00	..80.00
Pine, Scotch, 4 to 6 ins. S.	..4.00	..30.00
Pine, Scotch, 8 to 12 ins. T.	..10.00	..80.00
Spruce, Black Hills, 2 to 4 ins. S.	..3.00	..20.00
Spruce, Engelmann, 2 to 4 ins. S.	..3.00	..20.00
Spruce, Col. Blue, 2 to 4 ins. S.	..4.00	..30.00
Spruce, Col. Blue, 4 to 6 ins. S.	..5.00	..40.00
Spruce, Norway, 2 to 4 ins. S.	..3.00	..20.00

C. WILSON'S NURSERY, PEMBINE, WIS.

FIELD-GROWN JUNIPER LINERS

Per 100

Andorra Juniper, 1-yr., 8 to 12 ins.	..\$12.00
English Juniper, 1-yr., 8 to 12 ins.	..12.00
Juniperus fastigiata, 1-yr., 8 to 12 ins.	..15.00
Hetz Juniper, 1-yr., 8 to 12 ins.	..12.00
Hetz Juniper, 2-yr., T., 8 to 12 ins.	..17.50
Hetz Juniper, 2-yr., T., 12 to 15 ins.	..20.00
Pfitzer Juniper, 2-yr., 8 to 12 ins.	..27.50
Savin Juniper, 1-yr., 8 to 12 ins.	..12.00
Savin Juniper, 2-yr., T., 8 to 12 ins.	..15.00
Von Ehrh Juniper, 1-yr., 8 to 12 ins.	..12.00
Waukegan Juniper, 1-yr., 8 to 12 ins.	..12.00

ATHENS NURSERY CO.

Athens, Ala.

2-YR. EVERGREEN SEEDLINGS

100 1000

Colorado Blue Spruce, 3 to 6 ins.	..\$7.50	..\$37.50
Scotch Pine (Cert. Austrian), 4 to 8 ins.	..7.00	..35.75
Juniper, scopulorum, 6 to 10 ins.	..12.75	..63.00
Concolor Fir, 5 to 10 ins.	..12.75	..63.00
Colorado Blue Spruce, 3-yr., 5 to 10 ins.	..12.00	..60.00
Norway Spruce, 4-year, 10 to 16 ins.	..10.75	..53.75
White Spruce, 4-year, 10 to 16 ins.	..12.75	..63.00
Juniper, scopulorum, 4-year, 12 to 24 ins.	..24.75	..123.75
American Arborvitae, transplants, 10 to 16 ins.	..19.75	..98.75

Postpaid up to zone 4.

REMITTANCE with order, packing free.

Orders accepted for fall and spring.

NEUNER'S EVERGREEN NURSERY

368 Elcher Rd. Pittsburgh 2, Pa.

GRADED SEEDLINGS AND TRANSPLANTS

2-year seedlings

100 1000

Riga Scotch Pine, 4 to 8 ins.	..\$5.00	..\$25.00
Scotch Pine, 4 to 8 ins.	..4.00	..20.00
Austrian Pine, 3 to 6 ins.	..4.00	..20.00
Norway Spruce, 4 to 8 ins.	..4.00	..20.00
Colorado Blue Spruce, 2 to 4 ins.	..4.00	..20.00
3-year seedlings		
Norway Spruce, 8 to 14 ins.	..6.00	..30.00
Engelmann Spruce, 4 to 8 ins.	..6.00	..30.00
4-year, well branched transplants		
Concolor Fir, 6 to 12 ins.	..\$30.00	..\$150.00
Blue Douglas Fir, 6 to 12 ins.	..20.00	..100.00
Am. Arborvitae, 10 to 16 ins.	..20.00	..100.00
Colo. Blue Spruce, 4 to 8 ins.	..15.00	..75.00
Scotch Pine, 10 to 16 ins.	..15.00	..75.00
Norway Spruce, 5-yr., T., 12 to 16 ins.	..20.00	..100.00
Eucynomus patens, 6 to 10 ins.	..20.00	..100.00

Cash with order, please. Packing free.

F.O.B. Angola.

ARTHUR CASH NURSERY

Lake Shore Rd. Angola, N. Y.

TAXUS

Excellent quality. For fall shipment. Car and trailer loads only, with Japanese beetle certificate.

Each

Taxus cuspidata (Upright Yew)	
3 to 3 1/2 ft.	..\$6.75
3 1/2 to 4 ft.	..8.00
4 to 4 1/2 ft.	..9.50
Larger sizes up to 9 ft.	
Taxus cuspidata (Spreading Yew)	
1 1/2 to 2 1/2 ft.	..4.00
2 1/2 to 3 ft.	..5.25
Taxus Hicksi (Hicks Yew)	
2 to 2 1/2 ft.	..4.00
2 1/2 to 3 ft.	..5.00
Larger sizes up to 4 1/2 ft.	
Also Taxus hatfieldi, T. intermedia, T. yermeyana, and others. Write for complete list.	

BULK'S NURSERIES

610 W. Montauk Hwy. Babylon, L. I., N. Y.

EVERGREEN SEEDLINGS

Per 1000

Blue Douglas Fir, 5 to 8 ins.	..\$58.00
2-yr. transplants	..48.00
White Spruce, 6 to 12 ins.	..29.00
2-yr. transplants	..52.00
Scotch Pine, 4 to 8 ins., 2-yr. seedlings	..75.00
8 to 12 ins., 3-yr. seedlings	..75.00
Our 3-yr. Scotch Pine transplants are beautifully branched. Best we have grown in years.	

250 at 1000 rate. Packing free.

W. S. YOE NURSERIES

Lake St. Madison, O.

COLORADO BLUE SPRUCE

320, 4 to 7 ft. tall, well-branched to the ground and first-class specimens. Over 64 per cent blues. Row-run, \$6.00 each. 370, 4 to 6 ft., 44 per cent blues; many shiners. Row-run, \$4.50. Contract for them all, at \$4.75 and take 2 years to move, if desired. Also have 200 specimen Black Hills, 3 to 7 ft.

RAY NASH

4975 Grand River Rd. Owosso, Mich.

NURSERY-GROWN

CANADIAN HEMLOCK

98, 2 to 3 ft., \$2.50 each. 100, 3 to 4 ft., \$3.00 each. In the ground; buyer to dig.

HARRIS GREBE

306 Union St. Royersford, Pa.

POTTED LINERS, 2 1/4-IN.

Pfitzer Juniper, 6 to 10 ins.	..\$0.15
Flex Burfordi, 6 to 10 ins.	..15
Flex rotundifolia, 5 to 8 ins.	..12
English Ivy, 6 to 12 ins.	..10
Nandina, 5 to 8 ins.	..10

J. G. TSCHINKEL

115 N. Plymouth Huntville, Ala.

SELL OUT

2% ACRES

EVERGREEN STOCK

BEDDED STOCK

1-yr. in the open.	Per 100	Per 1000
<i>Ilex convexa</i>	\$20.00	\$180.00
<i>Ilex rotundifolia</i>	20.00	180.00
<i>Sarcococca Hookeriana</i>	25.00	250.00
<i>Taxus Andersoni</i>	20.00	175.00
<i>Taxus brevifolia</i>	20.00	175.00
<i>Taxus Browni</i>	17.50	150.00
<i>Taxus canadensis stricta</i>	17.50	150.00
<i>Taxus capitata</i> , cutting	25.00	250.00
<i>Taxus cuspidata</i>	17.50	150.00
<i>Taxus Hatfieldi</i>	17.50	150.00
<i>Taxus Hicksi</i>	17.50	150.00
<i>Taxus intermedia</i>	17.50	150.00

SEEDLINGS AND TRANSPLANTS

<i>Abies Douglasi</i> , 2-yr., S.	4.00	35.00
<i>Abies Nordmanniana</i> , 1-yr., S.	10.00	90.00
<i>Acer palmatum</i> , 1-yr., S.	6.00	50.00
<i>Acer palmatum</i> , 2-yr., S.	7.50	65.00
<i>Acer palmatum atropurpureum</i> , 1-yr., S.	22.50	200.00
<i>Amelopsis Veitchii</i> , 2-yr., T.	15.00	125.00
<i>Chamaecyparis obtusa</i> , 2-yr., S.	3.00	25.00
<i>Cornus florida</i> , 1-yr., S.	6.00	50.00
<i>Cornus florida</i> , 2-yr., S.	7.50	65.00
<i>Cornus xanthocarpa</i> , 2-yr., S.	20.00	150.00
<i>Cupressus Lawsoniana</i> , 2-yr., S.	5.00	40.00
<i>Euonymus alatus</i> , 1-yr., S.	3.50	30.00
<i>Euonymus alatus compactus</i> , 1-yr., S.	5.00	40.00
<i>Ilex crenata</i> , 2-yr., S.	10.00	90.00
<i>Picea canadensis</i> , 2-yr., S.	3.50	30.00
<i>Picea Engelmanni</i> , 3-yr., S.	5.00	40.00
<i>Picea excelsa</i> , 2-yr., S.	2.50	20.00
<i>Picea pungens</i> , 2-yr., S.	3.50	30.00
<i>Pinus austriaca</i> , 2-yr., S.	7.00	60.00
<i>Pinus densiflora</i> , 3-yr., S.	7.00	60.00
<i>Pinus Mugo</i> , Tyr., 3-yr., S.	8.50	60.00
<i>Pinus resinosa</i> , 2-yr., S.	6.00	50.00
<i>Pinus Strobus</i> , 3-yr., S.	4.50	40.00
<i>Pinus sylvestris</i> , 3-yr., S.	6.00	50.00
<i>Pinus Thunbergi</i> , 3-yr., S.	6.50	60.00
<i>Syringa vulgaris</i> , 2-yr., S.	4.00	30.00
<i>Taxus capitata</i> , 1-yr., S.	5.00	40.00
<i>Taxus capitata</i> , T. 1-yr., S.	6.00	150.00
<i>Taxus capitata</i> , T. 2-yr., S.	16.00	150.00
<i>Tsuga canadensis</i> , 2-yr., T.	9.00	80.00
<i>Viburnum theifolium</i> , 1-yr., S.	10.00	90.00

HEAVY GROWN STOCK
Bare-root and ready for Cloverset pots and cash-and-carry trade

	Per 100
<i>Acer palmatum atropurpureum</i> , 15 to 18 ins.	\$400.00
<i>Cornus florida</i> , 2 to 3 ft. bushy.	80.00
<i>Cornus florida rubra</i> , 18 to 24 ins.	125.00
<i>Cornus Kousa</i> , 3 to 4 ft.	100.00

The above stock has been several times transplanted. Special price on large quantities. Full list on demand.

VERKADE'S NURSERIES, Wayne, N. J.

LINING-OUT STOCK

EVERGREEN GRAFTS	
<i>Cupressus arizonica</i> (Gaele) (Blue)	\$0.75
<i>Cupressus arizonica</i> (Greenwood) (Green) .....	.75
<i>Juniperus chinensis</i> Keteleeri .....	.75
<i>Juniperus scopulorum</i> cupressifolia .....	.75
<i>Juniperus scopulorum</i> kenzoni .....	.75
<i>Juniperus scopulorum</i> Welchi .....	.75
<i>Juniperus virginiana</i> Canaerti .....	.75
<i>Juniperus virginiana</i> Hilli .....	.75
<i>Juniperus virginiana</i> Hilli (Improved) .....	.75

LINERS

<i>Mahonia Aquifolium</i> .....	.40
<i>Lonicera Heckrothii</i> .....	.40
All the above in quart cans, ready for field planting. Minimum order 25 of kind.	
<i>Juniperus chinensis</i> excelata stricta	\$0.18
<i>Juniperus chinensis</i> Pfitzeriana .....	.18
<i>Juniperus chinensis</i> Pfitzeriana (new) .....	.20
<i>Juniperus chinensis</i> Pfitzeriana aurea .....	.18
<i>Juniperus chinensis</i> Pfitzeriana, blue .....	.20
<i>Juniperus chinensis</i> procumbens .....	.20
<i>Juniperus communis</i> hibernica .....	.18
<i>Juniperus horizontalis</i> plumosa .....	.18
<i>Juniperus Sabina</i> .....	.18
<i>Juniperus Sabina tamariscifolia</i> .....	.20
<i>Juniperus Sabina</i> Von Ehron .....	.18
<i>Juniperus scopulorum</i> Silver Star .....	.25
<i>Berberis Julianae</i> .....	.20
<i>Buxus sempervirens</i> .....	.20
<i>Euonymus japonicus</i> .....	.15
<i>Euonymus japonicus</i> aureo-variegatus .....	.25
<i>Euonymus japonicus</i> Silver Queen .....	.25
<i>Euonymus japonicus</i> microphyllus .....	.25
<i>Euonymus Newport</i> .....	.20
<i>Euonymus radicans</i> .....	.20
<i>Juniperus floridum</i> .....	.15
<i>Lonicera purpurea</i> .....	.15
<i>Lonicera yunnanensis</i> .....	.20
<i>Lavandula</i> (English Lavender) .....	.20
<i>Pyracantha Lalandi</i> .....	.15
<i>Pyracantha pauciflora</i> .....	.15
<i>Santolinas</i> .....	.15
<i>Ligustrum Vickary's Golden</i> .....	.20
All the above out of 2 1/2-in. rose pots, well-established. Wrapped and packed good. Minimum order 25 of kind.	

KENYON'S NURSERY

Offices: 2915 N. W. 10th
Oklahoma City, Okla.
Growing Farm: Dover, Okla.

FROM 2 1/2-IN. POTS

Euonymus vegetus, *Ilex*, *Junipers*, *Pfitzer*, *Andorra*; *Arboretum*, *pyramidalis*, *elegantissima*; *Taxus brevifolia*, *hardy* *Boxwood*, \$15.00 per 100. No shipping.

MUNSON VALLEY NURSERY

William Mann Chesterland, O.
Halfway between Routes 306 and 44 on 322
Phone Chardon 6-2147

LINING-OUT STOCK

FOR IMMEDIATE SHIPMENT

	Per 100
<i>Abelia grandiflora</i> , 1-yr., T.	\$15.00
<i>Arboretum</i> Boothi, 6 to 8 ins., X	22.50
<i>Arboretum</i> Douglasi aurea, 6 to 8 ins., X	22.50
<i>Arboretum</i> elegantissima, 8 to 10 ins., X	22.50
<i>Arboretum</i> elegantissima, 8 to 10 ins., X	22.50
<i>Arboretum</i> globosa, 6 to 8 ins., X	20.00
<i>Arboretum</i> globosa, 6 to 8 ins., X	20.00
<i>Arboretum</i> nigra, 6 to 8 ins., X	22.50
<i>Arboretum</i> pyramidalis, 6 to 8 ins., X	22.50
<i>Berberis Julianae</i> , 6 to 8 ins., X	22.50
<i>Boxwood</i> , japonica, 6 to 8 ins., X	15.00
<i>Boxwood</i> , 8 to 10 ins., X	17.50
<i>Canadian Hemlock</i> , 4 to 6 ins., X	17.50
<i>Ilex convexa</i> bullata, 6 to 8 ins., X	22.50
<i>Ilex convexa</i> bullata, 6 to 8 ins., X	22.50
<i>Ilex crenata</i> , 8 to 10 ins., X	25.00
<i>Ilex microphylla</i> , 4 to 6 ins., X	17.50
<i>Ilex rotundifolia</i> , 6 to 8 ins., X	22.50
<i>Ilex rotundifolia</i> , 6 to 8 ins., X	22.50
<i>Leucothoe Catesbaei</i> , 6 to 8 ins., X	25.00
<i>Ligustrum lucidum</i> , 8 to 10 ins., X	25.00
<i>Omanthus Aquifolium</i> , 9 to 12 ins., X	28.50
3-in. pots	20.00
<i>Regelia Privet</i> , 2-yr., T. large	18.00
<i>Retinispora ericoides</i> , 2 to 14 ins., X	22.50
<i>Retinispora Goldust</i> , 8 to 10 ins., X	27.50
<i>Retinispora</i> , 10 to 12 ins., X	30.00
<i>Retinispora plumosa</i> , 8 to 10 ins., X	20.00
<i>Taxus capitata</i> , 4 to 6 ins., X	17.50
<i>Taxus capitata</i> , 4 to 6 ins., X	22.50
<i>Taxus Halloran</i> , 6 to 8 ins., X	22.50
<i>Taxus Hatfieldi</i> , 6 to 8 ins., X	22.50
<i>Taxus Hicksi</i> , 6 to 8 ins., X	22.50

Write for complete fall list.

ESHAM'S NURSERIES, MILLSBORO, DEL.

EVERGREENS

<i>Pfitzer Juniper</i> , 6 to 8-in. bands	\$0.14
<i>Andorra Juniper</i> , 6 to 10 ins., bare-root .....	.06
<i>Blue 6 to 8-in. bands</i> .....	.14
<i>Blue 6 to 10 ins.</i> .....	.08
<i>Blue 6 to 8-in. bands</i> .....	.14
<i>Von Ehron Juniper</i> , 6 to 8-in. bands .....	.14
<i>Burk Juniper</i> , 6 to 10 ins., bare-root .....	.06
<i>Spreading Jap. Yew</i> , 6 to 8-in. bands .....	.14
<i>DECIDUOUS</i> , bare-root .....	.06
<i>Buddleia</i> , best blue; 6 to 8 ins. ....	.06
<i>Buddleia</i> , best red; 6 to 8 ins. ....	.06
<i>Buddleia</i> Snowball; 6 to 8 ins. ....	.06
<i>Blue Spiraea</i> (Caryopteris), 16 to 14 ins. ....	.03 1/2
<i>Chinese Beauty-Berry</i> , 8 to 12 ins. ....	.03 1/2
<i>Privet</i> , Chinese, Wayside Gardens, 8 to 12 ins. ....	.03 1/2
<i>Privet</i> , Regels, 8 to 12 ins. ....	.03 1/2
<i>Euonymus coloratus</i> , 6 to 10 ins. ....	.03 1/2
<i>Euonymus patens</i> , small, medium or large-leaved, 6 to 10 ins. ....	.04
<i>Forsythia Lynwood Gold</i> , 6 to 10 ins. ....	.08
<i>Forsythia Spring Glory</i> , 6 to 10 ins. ....	.04
<i>Spiraea Froebel</i> , 4 to 6 ins. ....	.03 1/2
<i>Spiraea japonica</i> coccinea, 3 to 5 ins. ....	.03 1/2
<i>Spiraea Anthony Waterer</i> , 3 to 5 ins. ....	.03 1/2
<i>Weigela Eva Rathke</i> , 5 to 6 ins. ....	.06
<i>Weigela rosea</i> , 5 to 6 ins. ....	.04
<i>Weigela Vanicelli</i> , 5 to 6 ins. ....	.06

PERENNIALS

Verbenas, lavender-pink, 4 to 6 ins.05
Verbenas, pink, 4 to 6 ins.05
All prices 300 or more total order.
than 300, add 2c per plant.

McINCH GREENHOUSES

St. Joseph, Mo.

LINING-OUT STOCK

Fall, 1955—Spring, 1956	
Potted and transplanted stock under lath.	
	Per 100
<i>Buxus sempervirens</i> , 2 1/2-in. pots	\$17.50
<i>Canadian Hemlock</i> , 3-yr., T.	
12 to 15 ins.	37.50
15 to 18 ins.	45.00
<i>Cotoneaster divaricata</i> , 2-in. pots	17.50
<i>Cotoneaster Wilsoni</i> , 2-in. pots	27.50
<i>Cotoneaster Zabeli</i> , 2-in. pots	17.50
<i>Euonymus erectus</i> , 2-in. pots	17.50
<i>Pyracantha coccinea</i> pauciflora, 2-in. pots	22.50
<i>Pyracantha Royleana</i> , 2-in. pots	22.50
<i>Taxus cuspidata</i> , 1-yr., 2-in. pots	17.50
1-yr., 2 1/2-in. pots	20.00
2-yr., 2 1/2-in. pots	22.50
3-yr., 2 1/2-in. pots	27.50
2-yr., T. 6 to 8 ins.	27.50
<i>Taxus Hicksi</i> , 1-yr., 2-in. pots	17.50
1-yr., 2 1/2-in. pots	20.00
2-yr., T. 6 to 8 ins.	37.50

We will be pleased to have you visit our nursery, located 25 miles west of Dayton, O., on Route 35.

Order now for fall, 1955, and spring, 1956 delivery.

FLORAL GARDENS, EATON, O.

LINING-OUT STOCK	
	100 1000
<i>Euonymus vegetus</i> , rooted cutng. \$ 7.00	\$ 60.00
<i>coloratus</i> , rooted cuttings	7.00 60.00
<i>Forsythia Lynwood Gold</i> , 2 1/2-in. pots	18.00 200.00
<i>Lynwood Gold</i> rtd. cuttings	12.00 100.00
<i>Pyracantha Lalandi</i> , 2 1/2-in. pots	24.00 220.00
<i>Taxus cuspidata</i> , 2 1/2-in. pots	24.00 220.00
<i>Ilex rotundifolia</i> , 2-in. pots	18.00 160.00

EDWARD GILSON & SON NURSERY
U. S. Rt. 20 Perry, O.

TOP-GRADE LINERS

Each per 1000 rate

	1-year 2-year
	under under
	lath lath
POTTED LINERS	
2 1/2-in. pots	
<i>Berckmans' Biota aurea nana</i>	\$0.18
<i>Biota bonita</i> , upright .....	.18
<i>Biota Sibylli</i> (upright) .....	.18
<i>Thuja Woodwardi</i> globe .....	.18
<i>Andorra Juniper</i> .....	.14 \$0.16
<i>Canadian Golden Depressa Juniper</i> .....	.20
<i>Compact Pfitzer Juniper</i> .....	.22
<i>Greek Juniper</i> .....	.18
<i>Hetz Juniper</i> .....	.18
<i>Meyeri Juniper</i> .....	.20
<i>Pfitzer Juniper</i> .....	.16
<i>Von Ehron Juniper</i> .....	.16
<i>Ilex crenata convexa bullata</i> .....	.14
<i>Ilex crenata rotundifolia</i> .....	.14
<i>Ilex cornuta Burfordi</i> .....	.15
<i>Ilex cornuta femina</i> .....	.16
<i>Ilex opaca East Palatka</i> .....	.16

FIELD-GROWN: Improved English Juniper

2-yr., XX, 10 to 12 ins. \$0.16

Greek Juniper, 1-yr., 10 to 12 ins.16

Swedish Juniper, 1-yr., 10 to 12 ins.16

BED-GROWN: Ilex cornuta Burfordi, 3-yr., branched

Ilex cornuta femina, 3-yr., branched

*Plants which require trimming have been properly sheared.

TERMS: 2 per cent discount for cash with order. Free packing. Add 2c for each plant orders of less than 250. Priced F.O.B. nursery.

E AND S NURSERY

Caledonia, Miss.

Phone Columbus, Miss., 5342

1-YEAR BEDDED STOCK

Ilex convexa

Ilex rotundifolia

2-YEAR BEDDED STOCK

Juniperus Hetzi

Taxus cuspidata

Ilex convexa

Ilex rotundifolia

Azalea panicum

Azalea mollis

Pyracantha Lalandi

Leucothoe Catesbaei

Viburnum lant. gr. s.

3-YEAR BEDDED STOCK

Juniperus Hetzi

Taxus cuspidata

Euonymus radicans erecta

Euonymus vegetus

Leucothoe Catesbaei

Azalea panicum

Azalea mollis

1-YEAR S., *Manonia Aquifolium*

MAHLSTEDE BROS.

5323-5351 Wilson Mills Rd.

Cleveland 24, O.

EXTRA-HEAVY LINING-OUT STOCK

FROM FIELD BEDS

Per 100

Taxus capitata, 3-yr., TT, 10 to 12 ins. \$50.00

Taxus capitata, 2-yr., TT, 8 to 10 ins. 40.00

Taxus cuspidata, 3-yr., TT, 10 to 12 ins. 45.00

Taxus cuspidata, 2-yr., T. 8 to 10 ins. 35.00

Taxus Browni, 2-yr., T. 8 to 10 ins. 45.00

Taxus Hicksi, 2-yr., T. 8 to 10 ins. 35.00

Cotoneaster divaricata, 2-yr., T. 25.00

12 to 15 ins. 25.00

Alpine Currant, 2-yr., T. 12 to 16 ins. 25.00

Euonymus vegetus, 2-yr., T. 10 to 12 ins. 35.00

LINING-OUT STOCK—Continued

EVERGREEN LINERS		Per 100
Junipers		
1500 Pfitzer, 4-yr., XX, heavy, sheared, 12 to 15 ins.		\$55.00
5000 Pfitzer, 3-yr., XX, 9 to 12 ins.		40.00
300 Pfitzer Golden, 3-yr., XX, 8 to 10 ins.		35.00
200 Hets, 4-yr., XX, heavy, 15 to 18 ins.		60.00
500 Andorra, 3-yr., XX, 9 to 12 ins.		35.00
Deduct 10 per cent for shipment this fall or cash with order.		

DAMASCUS NURSERIES		
Damascus, O.		
EUONYMUS LINERS		
Patens Newport, Carrierel and erecta, 2-in. pots, 10c; 3-yr., T, 30c.		
Also Juniperus glauca Hetzi, 2 1/2-in. pots, 18c.		
RUSSELL BRECE, R. C. Delaware, O.		

IT WILL PAY YOU TO
GET OUR LIST OF TOP-GRADE LINERS
AS WELL AS FINISHED STOCK,
THE COTTAGE GARDENS
Lansing 17, Mich.

PACHYSANDRAS

PACHYSANDRAS		100 1000
1-year, field-grown		\$ 35.00
2-year, field-grown		6.00 50.00
2 1/2-in., pot-grown		10.00 90.00
HANSEN BROS. NURSERIES, INC.		
Narberth, Pa.		
(Formerly Hugh B. Barclay)		

PANSIES

MICHIGAN-GROWN PANSY PLANTS
Ready now, over 3 million Pansy and
Sweet William plants; also complete list of
hardy perennials. Write for copy.
HOWARD STREET PANSY GARDENS
Kalamazoo 99, Mich.

Classified Ads Offer Maximum
Results at Minimum Cost.

PEONIES

Strong 3 to 5-eye divisions from young
plants. Delivery now. Packing free for
cash with order, otherwise at cost.
5 of a variety at 10 rate; 25 of a variety
at 100 rate; 250 of a variety at the 1000 rate.

Baroness Schroeder.		10 100 1000
flash-pink		\$5.00 \$45.00 \$400
Canari, sulphur-white		4.00 35.00 300
Duch. de Nemours,		
ivory-white		4.50 40.00 350
Duch. d'Orleans, soft pink		3.00 28.00 250
Duc de Wellington, pure wh.		3.50 30.00 280
Edulis Superba, deep pink		3.00 28.00 250
Felix Crousse, ruby-red		4.50 40.00 350
Festiva Maxima, white		4.00 35.00 325
Francoise Ortegat, crimson		3.50 30.00 280
Karl Rosefeldt, dk. crimson		4.50 40.00 375
Lillian Wild, flesh to white		10.00 75.00 ..
Lord Kitchener, deep red		6.00 50.00 475
Mary Brand, crimson		5.50 50.00 ..
Mme. de Verneville, white		4.00 35.00 325
Mons. Jules Elie, pink		5.00 45.00 350
Officialis rubra, early red		6.00 50.00 400
Osark Beauty, late deep pk.		5.00 50.00 450
Queen Emma, silvery pink		4.00 35.00 300
Queen Victoria, white		3.50 30.00 280
Sarah Bernhardt, light pk.		4.50 40.00 375
Mixed Peonies, grown mixed		3.00 25.00 225
Pink Peonies, not named		3.00 27.50 250
White Peonies, not named		3.00 27.50 250
Red Peonies, not named		3.00 27.50 250

2 to 3-eye divisions, 25 per cent off the
3 to 5-eye price; 1 to 2-eye divisions, 50
per cent off the 3 to 5-eye price.

SARCOXIE NURSERIES PEONY FIELDS
Wild Bros. Nursery Co.
Phone 43 Sarcocie, Mo.

FINE PEONIES

Strong, healthy 3 to 5-eye divisions from 3 to 5-yr. plants. Exceptional quality roots Each, 10 100 1000		
BAR. SCHROEDER, soft		
white		\$0.50 \$0.45 \$0.40
PELIX CROUSSE, ruby-red		.50 .45 .40
FRANCES WILLARD, white		.50 .45 .40
LE CYGNE, cream-white		1.10 1.00 .90
MARIE CROUSSE, sal.-pink		.50 .45 .40
M. JULES ELIE, early-pink		.45 .40 .35
MONS. M. CAHUZAC, mar.		.70 .65 .60
REINE HORTENSE, soft		
pink		.45 .40 .35
SOLANGE, amber and cream		.60 .55 .50
SARAH BERNHARDT,		
deep pink		.45 .40 .35
Our complete list also contains many sin- gle and Japanese varieties and TREE PE- ONIES.		

Approved credit 2 per cent 10 days, 30 days
net; 3 per cent for cash with order.
THE COTTAGE GARDENS
Lansing 17, Mich.

PEONY MONS. JULES ELIE

One of the finest for cut flowers. Generous
divisions, from 3-year plants, \$27.50 per 100,
\$325.00 per 1000.
LITTLEFORD NURSERIES, Vincennes, Ind.

PEONIES.

Large 3 to 5-eye divisions. F.O.B. Con-
cordville, packing extra. Special prices will
be made for large quantities.

Each, per 1000	
3.500 Avalanche	35c
2.400 Bayadere	20c
3.500 Edulis Superba	18c
2.000 Felix Crousse	35c
7.000 Festiva Maxima	30c
2.000 Inspecteur Lavergne	40c
1.200 Laura Dessert	20c
15.000 M. Jules Elie	25c
1.500 Modeste Guerin	30c
1.500 Reine Hortense	30c
4.000 Richard Carvel	40c
1.200 Therese	35c
5.000 Pink	17c
6.000 Akashi-gata	18c
3.600 Mikado	35c
2.500 Single, named varieties	25c
2.500 Saunders Hybrids, sensational new shades, ask for list.	
STYER'S NURSERIES Concordville, Pa.	

PEONIES

Per 10 Per 100	
Brand's Magnificent, red	\$0.55 \$50.00
Grover Cleveland, red	.50 45.00
Longfellow, red	.50 45.00
Mary Brand, red	.50 45.00
Richard Carvel, red	.65 60.00
Martha Bulloch, pink	.65 60.00
Mona, Jules Elie, pink	.45 40.00
Phyllis Kelway, pink	.55 50.00
Sarah Bernhardt, pink	.45 40.00
Red and Pink, to color	.30 25.00
Strong 3 to 5 eye ready September 1.	
Cash. Free packing.	
WHEELLOCK WILSON NURSERY Marshalltown, Ia.	

PEONIES

Augusta Desert, Ball o' Cotton, Baroness
Schroeder, Milton Hill, Mons. Jules Elie,
Sarah Bernhardt, 100, \$35.00. Assorted to
suit you. Mixed white or pink kinds, 100,
\$25.00. Also, 1-yr. grafted tree Peonies,
named varieties, in white, pink, red, purple;
10 \$15.00; 100, \$125.00. Officialis and spec-
ies Peonies, too. Free list.

ATHA GARDENS, WEST LIBERTY, O.

PEONIES

3 to 5-eye, from 3-yr. clumps.		10 100
Edulis Superba, pink		\$3.00 \$25.00
Festiva Maxima, white		3.00 25.00
La Perle, pink fading to white		3.00 25.00
Mme. Ducl, pink		3.00 25.00
NOVOTNY GARDENS, OSAGE, IA.		

PEONIES

Large 3 to 5-eye divisions, from 3-year-old
block, \$30.00 per 100, F.O.B. here. Varieties:
Felix Crousse, Karl Rosefeldt, red; festiva
maxima, white; edulis superba, pink.
GILBERTSON NURSERY, Kindred, N. D.

PHLOX

HARDY PHLOX
Our new list on Hardy Phlox and Creep-
ing Phlox has been mailed. If you didn't
get your copy, please write for it at once.
WALTERS GARDENS
Zeeland, Mich.

PHLOXES

Please ask for list.
GULDEMONT NURSERIES
Galesburg, Mich.

MARVIN HOEZZE

GROWER OF HARDY PHLOX.
WRITE FOR PRICE LIST.
Rt. 2 Lynden, Wash.

RHODODENDRONS

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants import-
ed from Holland in the spring. \$75.00 per
100, \$350.00 per 500, \$650.00 per 1000 lot.
List of varieties on demand.
VERKADE'S NURSERIES, Wayne, N. J.

RHODODENDRON MAXIMUM
Nursery-grown and collected. 2 to 7 ft.
high. Well-shaped, symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

RHODODENDRONS
Write for our fall trade list of grafted
plants and hardy hybrid seedlings.
R. D. 3, LEVICK NURSERIES, CO.
Bridgeton, N. J.

Nursery-grown hybrid Rhododendrons,
landscaping sizes.
Farmer's Roses, Bayport, L. I., N. Y.
Telephone—Bayport 8-0811.

ROSEBUSHES

MULTIFLORA ROSE UNDERSTOCK.
STRAIGHT SHANKED SEEDLINGS, EX-
PERTLY GRADED. 4 TO 6 MM. \$27.50
PER 1000; 2 TO 4 MM., \$17.50 PER 1000.
OR MORE. NO PACKING CHARGE. EX-
CELLENT STORAGE FACILITIES. CAN
DELIVER FALL, WINTER OR SPRING.
FARM LANDSCAPE CO.
BOX 230 URBANA, ILL.

THORNY ROSA MULTIFLORA

Order for fall or spring delivery.
2 to 3 mm. caliper.....\$10.00 per 1000
3 to 4 mm. caliper..... 16.00 per 1000
6 to 12 mm. caliper..... 30.00 per 1000
Bed-run, 2 mm. up..... 12.50 per 1000
10 per cent off on orders of 10,000 or more.
No packing charge. F.O.B. Vandalla, Ill.

MESTEL NURSERY

Route 2
Vandalla, Ill.

MULTIFLORA ROSE

12 to 18 ins. \$28.00 per 1000.
18 to 24 ins. \$48.00 per 1000.
MRS. R. L. ROBINSON, Greenville, Ga.

SEEDS

MULTIFLORA ROSE SEED
CLEAN, FRESHLY COLLECTED FROM
THORNY UPRIGHT PLANTS. ADAPTED
TO MIDWEST CLIMATE. READY BEGIN-
NING OCTOBER. \$3.75 PER LB.; \$3.25, 10-
LB. QUANTITIES. PRICES ON LARGER
QUANTITIES ON REQUEST.
FARM LANDSCAPE CO.
BOX 230 URBANA, ILL.

MULTIFLORA ROSE SEEDS, picked from
thorny, upright plants. Order now for fall
delivery from 1955 crop.
Picea Canadensis, 5 to 11 ft. \$3.50
6 to 50 lbs. 3.25
50 lbs. or more 3.00
F.O.B.

FARMLAND IMPROVEMENT CO.
Box 124 Yorkville, Ill.

Watch Your Results From
American Nurseryman Classified Ads.

SHRUBS AND TREES

UNUSUAL LANDSCAPE ITEMS
Tsuga canadensis, 5 to 11 ft.
Tsuga caroliniana, 5 to 9 ft.
Tsuga Fremdi, 6 to 8 ft.
Tsuga Sargentii, 3 to 4-ft. spread
Taxus Brownii, 5 to 6 ft.
Taxus capitata, 5 to 8 ft.
Taxus Hickii, 5 to 8 ft.
Taxus repandens, 3 to 5-ft. spread
Picea glauca conica, 5 ft.
Picea densata glauca, 12 to 16 ft.
Picea Engelmannii, 8 to 12 ft.
Picea Omorika, 9 to 14 ft.
Picea pungens, 12 to 16 ft.
Pinus flexilis, 5 to 7 ft.
Pinus Strobus fastigiata, 12 to 18 ft.
Pinus Strobus nana, 3 to 5-ft. spread
Pinus Strobus pendula, 12 to 14 ft.
Pinus Thunbergii, 8 to 14 ft.
Chamaecyparis filifera aurea, 5 to 7 ft.
Chamaecyparis obtusa Crippsii, 7 to 9 ft.
Chamaecyparis obtusa nana, 3 to 5 ft.
Abies balsamea, 12 to 14 ft.
Azalea calendulacea, 6 to 8 ft.
Azalea poukhanensis, 4 to 6-ft. spread
Cercis canadensis, 8 to 14 ft.
Cornus florida, 10 to 18 ft.
Cotoneaster divaricata, 4 to 5 ft.
Franklinia alatamaha, 8 to 10 ft.
Halesia tetrapetala, 12 to 14 ft.
Ilex opaca, 6 to 9 ft.
Ilex crenata, 7 to 10 ft.
Magnolia, in variety, 8 to 10 ft.
Prunus Newport, 5 to 9 ft.
Rhododendrons, hybrids, 6 to 8 ft.
Rhododendron maximum, clumps, approxi-
mately 15 canes, 5 to 8 ft.
Stewartia pentagyna, 8 to 10 ft.
Viburnum Carlesii, 2 to 6 ft.
Albizia Julibrissin rosea, 2 to 5-in. cal.
Fagus sylvatica, 2 to 5-in. caliper
Pin Oak, 1 1/2 to 7-in. caliper
Red Oak, 2 to 5-in. caliper
Sweet Gum, 2 1/2 to 8-in. caliper
65 acres of choice landscape material.
Established 38 years. Send us your want list
for quotation.

BLOOMER'S
NURSERY & GARDEN CENTER
Rt. 69, 5 miles north of Flemington
Flemington, N. J.
Phone: Flemington 155

VIBURNUM CARLESI
This is the first time since the beginning
of the war that we have been able to offer
a supply of Viburnum Carlesii seedlings. All
these years we have not been able to buy
seed and still cannot, but can offer
these seedlings because we have our own
seed by this time. We offer the following for
spring, 1955:

Strong, 2-yr. seedlings		Per 100 Per 1000
4 to 6 ins.		\$15.00 \$150.00
6 to 8 ins.		20.00 200.00
8 to 12 ins.		30.00 300.00
Transplants, branched, mail-order size 12 to 18 ins., \$75.00 per 100.		
C. HOOGENDOORN		
Turner Rd. Newport, R. I.		

SURPLUS SEEDLINGS AND
TRANSPLANTS
Per 100
1000 Red Barberry, 2 1/2 to 3 ft. \$50.00
1000 Balsam Fir, 4-yr., 5 to 7 in. 20.00
1000 Blue Spruce, T., 4-yr., 7 to 10 ins. 32.00
1000 Scotch Pine, T., 4-yr., 12 to 16 ins. 27.00
1000 Scotch Pine, T.T., 5-yr., 16 to 22 in. 35.00
1000 White Pine, T., 4-yr., 16 to 22 ins. 27.00
Red and White Pine 1-yr., side 1000 \$25.00.
UNADILLA NURSERY, Johnson City, N. Y.

SEEDLINGS, WHOLESALE LIST

All our seedlings are grown in open beds, with proper irrigation and fertilization. They have good calliper for height.

ACER GINNALA (Amur Maple)
Best dwarf Maple; colorful, bright red fruits in summer while leaves are green. The scarlet autumn foliage is as brilliant as any of the Maples. A good tree for specimen or for screening purposes, requiring no care. —Wyman.

Size	Each	100 rate	1000 rate
6 to 12 ins.	\$0.04	\$0.03
12 to 18 ins.06	.04
18 to 24 ins.09	.06

ACER PLATANOIDES (Norway Maple)

6 to 12 ins.	.....	.06	.03
6 to 12 ins.	.....	.07	.05
12 to 18 ins.	.....	.11	.09

FRAXINUS LANCEOLATA (Green Ash)

Strong, husky seedlings, grown under irrigation. Excellent, fast-growing shade tree.

6 to 12 ins.	.....	\$0.01 1/2	\$0.01
12 to 18 ins.	.....	.02	.01 1/2
18 to 24 ins.	.....	.03	.02 1/2

KOELREUTERIA PANICULATA (Golden Rain Tree)

Our best flowering tree seller. Chains of rich yellow bloom in mid-summer. Fern-like foliage. Splendid for grouping or specimen plants.

6 to 12 ins.	.....	\$0.06	\$0.04
12 to 18 ins.	.....	.09	.07
18 to 24 ins.	.....	.12	.10

JUNIPERUS VIRGINIANA

Seed from Winona, Minn. This is as close to a blight-resistant strain as we have found. Excellent crop this year, grown under irrigation.

4 to 6 ins.	.....	\$0.03	\$0.02 1/2
6 to 8 ins.	.....	.05	.04
8 to 12 ins.	.....	.06	.05
12 to 18 ins.	.....	.20	.17
Understock	.....	.07	.06

LIQUIDAMBAR STYRACIFLUA (Sweet Gum)

Our plants are grown from Ill. seed. If you have been having difficulty getting stands of Sweet Gum, you haven't been using our liners.

6 to 12 ins.	.....	\$0.05	\$0.04
12 to 18 ins.	.....	.07	.06
18 to 24 ins.	.....	.09	.08

LONICERA MAACKII PODOCARPA (Amur Honeysuckle)

Best of Honeysuckles for fall display. Holds leaves longer than other shrub Honeysuckles. Profuse bright red fruit still on plant at Thanksgiving. We find this to be an excellent seller for hedges and screens.

6 to 12 ins.	.....	\$0.04	\$0.03
12 to 18 ins.	.....	.07	.05
18 to 24 ins.	.....	.11	.09

NYSSA SYLVATICA (Black Gum)

12 to 18 ins.	.....	\$0.07	\$0.06
18 to 24 ins.	.....	.12	.10

PHLODENDRON AMURENSE (Amur Cork-Tree)

12 to 18 ins.	.....	\$0.09	\$0.07
18 to 24 ins.	.....	.12	.10

PINUS SYLVESTRIS (Scotch Pine)

Green Christmas tree type. Holds winter color much better than other strains of Scotch Pine. Excellent crop this year.

4 to 6 ins.	.....	\$0.04	\$0.02 1/2
6 to 8 ins.	.....	.06	.04

PSEUDOTSUGA TAXIFOLIA GLAUCA (Douglas Fir)

4 to 6 ins.	.....	\$0.04	\$0.03
6 to 8 ins.	.....	.06	.04

PINUS AMERICANA

Exceptionally fine 2-year block. Straight, good, clean shank.

No. 3, 2 1/16-ins.	.....	\$0.02	\$0.01 1/2
No. 2, 2 1/16 to 3 1/16-in.	.....	.03	.02
No. 1, 3 1/16 to 1 7/8-in.	.....	.04	.03
1 7/8-in. up; 3 1/2-in. up	.....	.05	.04

PRUNUS SEROTINA (Black Cherry)

Truly an outstanding shade tree. Excellent characteristics.

6 to 12 ins.	.....	\$0.02	\$0.01 1/2
12 to 18 ins.	.....	.03	.02 1/2
18 to 24 ins.	.....	.05	.04

QUERCUS BOREALIS MAXIMA (Northern Red Oak)

Most rapid growing of all Oaks. Excellent tree for avenue plantings. Endures smoke.

6 to 12 ins.	.....	\$0.06	\$0.05
12 to 18 ins.	.....	.09	.07
18 to 24 ins.	.....	.12	.11

TAXODIUM DISTICHUM (Cypress)

6 to 12 ins.	.....	\$0.09	\$0.07
12 to 18 ins.	.....	.15	.12
18 to 24 ins.	.....	.20	.16

THUJA ORIENTALIS ROCHFESTERIANA

Seed selected from plantation trees at Soil Conservation Nursery. One of the best plants for screening that we know of. Fast grower, can be trimmed to hedging size of 3 ft.

4 to 6 ins.	.....	\$0.04	\$0.02
6 to 8 ins.	.....	.06	.04
8 to 12 ins.	.....	.09	.07

ULMUS PUMILA (Siberian or Chinese Elm)

6 to 12 ins.	.....	\$0.01 1/2	\$0.01
12 to 18 ins.	.....	.02	.01 1/2
18 to 24 ins.	.....	.03	.02

VIBURNUM DENTATUM (Arrow Wood)

One of the best Viburnums. Excellent autumn foliage. Good seller.

12 to 18 ins.	\$0.09	\$0.07
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(Continued next column)

(Continued from previous column.)

18 to 24 ins.12 .09
NOTE! Please order in 25 multiples, 300 or more take 1000 rate. Prices are F.O.B. Elsberry and include packing.
(See our display ad on ROSA MULTIFLORA in this issue.)

FORREST KEELING NURSERY

Elsberry, Mo.

POTTED GRAFTS, 1-YEAR

All stock is well-rooted.

	Per 100	Per 1000
Acer palmatum atropurpureum	\$75.00
Fagus sylvatica atropurpureum	75.00
Pinus Combra	65.00
Tsuga canadensis Sargentii	65.00
Wistaria multi-juga, lavender	50.00

ROOTED CUTTINGS, BEDDED 1-YEAR

	Per 100	Per 1000
Azalea Hino-Crimson	\$15.00
Azalea Hino-degiri	15.00
Pieris japonica	15.00
Buxus sempervirens	10.00
Euonymus alatus	10.00
Ilex crenata	10.00
Ilex rotundifolia	12.00
Juniper, Andorra	12.00
Juniper, communis aurea	12.00
Juniper, Hetz	12.00
Juniper, hibernica	10.00
Juniper, Pfitzer	12.00
Juniper, stricta	12.00
Pachysandra	35.00
Pyracantha Lalandi, potted	15.00
Pyracantha Lalandi	8.00
Retinispora plumosa aurea	10.00
Retinispora plumosa globosa	10.00
Tsuga brevifolia	10.00
Taxus cuspidata	10.00
Taxus Hatfieldi	10.00
Taxus Hicksi	10.00
Taxus repandens	12.00
Thuja globosa	10.00
Thuja globosa Woodwardi	10.00
Thuja Geo. Peabody	10.00
Thuja pyramidalis	10.00
Thuja nigra	10.00
Thuja Vervaekei	10.00

TRANSPLANTS

Azalea Hino-degiri, 2-yr. trans.	.....	30.00
Azalea Hino-Crimson, 2-yr. trans.	.....	30.00
Thuja occidentalis	.....	10.00
Picea excelsa	.....	6.00
Picea pungens glauca	.....	7.00
Picea, White Spruce	.....	6.00
Tsuga canadensis, 5 to 8 ins.	.....	10.00
Tsuga canadensis, 8 to 10 ins.	.....	15.00
Tsuga canadensis, 10 to 12 ins.	.....	20.00

1-YEAR SEEDLINGS

Acer palmatum	.....	4.00
Euonymus alatus compactus	.....	5.00
Fagus sylvatica	.....	5.00
Taxus capitata	.....	5.00
Taxus capitata, transplants	.....	6.00

2-YEAR SEEDLINGS

Douglas Fir	.....	4.00
Ilex crenata	.....	4.00
Taxus capitata, 5 to 8 ins.	.....	8.00
Taxus capitata, transplants	.....	10.00
5 to 6 ins.	.....	10.00
Thuja orientalis	.....	3.50
Wistaria sinensis	.....	5.00
Syringa vulgaris	.....	3.50

3-YEAR SEEDLINGS

Balsam Fir	.....	4.00
Picea excelsa	.....	3.50
Picea pungens glauca	.....	4.00
Picea, White Spruce	.....	3.50
Pinus densiflora	.....	5.00
Pinus Mugho Tyrolean	.....	6.00
Pinus Strobus	.....	3.50
Pinus sylvestris	.....	3.50
Tsuga canadensis	.....	6.00
Thuja caroliniana, transplants	.....	10.00

VAN DINE NURSERY

Berdan Ave. Breakness, N. J.

FALL DELIVERY

Azalea mollis, 3-yr. br., 6 to 8 ins.	.....	\$0.35
altacharene, 3-yr., 4 to 6 ins., br.	.....	.35
Clematis Ramona, 2-yr.; qt. cans	.....	1.00
Cotoneaster humifusa, 2-yr., T.	.....	.35
Daphne cneorum, 2-in. pots	.....	.20
Daphne odora, 2-in. pots	.....	.25
Daphne odora, 4-in. pots	.....	.45
Gentiana acutis, 6 to 8-in. spread	.....	1.00
Jun. tamariscifolia, 9 to 12 ins., 3-yr.	.....	.35
Moerheim Blue Spruce, 2-yr. grafts	.....	1.75
Pernettya, mixed; 2-year, 4 to 6 ins.	.....	.35
Pieris japonica, C.T., 4 to 6 ins., br.	.....	.35
rooted cuttings	.....	.20
Viburnum burkwoodi, rooted cuttings	.....	.15
burkwood, 2-in. pots	.....	.25
David, 1-year transplants	.....	.25
David, 4-in. pots	.....	.65
Woodward Globe Arborvitae, 6 to 8 ins.	.....	.15

FOUR STAR NURSERY

8215 238th S. W. Edmonds, Wash.

LINING-OUT STOCK

	Per 100
Deutzia gracilis, transplants
8 to 12 ins., bushy
Euonymus alatus, 8 to 10 ins.
Euonymus alatus compactus, 8 to 10 ins.
Spiraea Anthony Waterer, transplants, 6 to 8 ins.

List of other liners ready September.

JOHN ROS NURSERY, Clyde, O.

LINING-OUT STOCK

These items raised on black soil are sturdy and heavily rooted cuttings and are for late fall and early spring shipment.

100 1000

Regels Privet, true; cuttings, 8 to 12 ins. \$9.00 \$80.00

Spiraea Froebel, 8 to 12 ins. 8.50 75.00

Lonicera Clavey, dwarf, 12 to 15 ins. 9.00 80.00

Forstythia intermedia, 10 to 15. 7.50 70.00

Lonicera bella chrysantha, 12 to 15 ins. 8.00 75.00

Lonicera Zabeli, 12 to 15 ins. 9.00 80.00

Lonicera Ruprechtiana, 12 to 15. 8.00 75.00

Ribes aureum, 15 to 18 ins. 9.00 80.00

Physocarpus monogynus, 15 to 18 ins. 8.00 75.00

Philadelphus coronarius, 15 to 18 ins. 9.00 80.00

European Euonymus, seedlings, 8 to 12 ins. 9.00 80.00

Cornus paniculata, 2-yr. adigs. 8.00 75.00

Vase Elm, 6 to 8 ft. each, 1.25 1.10

Vase Elm, 8 to 10 ft. each, 1.85 1.65

Moline Elm, 6 to 8 ft. each, 1.25 1.10

Moline Elm, 8 to 10 ft. each, 1.85 1.65

EUGENE A. de ST. AUBIN & BRO., INC.

Phone Terrace 4-2200 Addison, Ill.

FIELD-GROWN STOCK

Per 100

Arborvitae: 100 Globe, 10 to 12 ins. \$0.50

35 Pyramidal, 15 to 18 ins. 1.00

50 Pyramidal, 18 to 24 ins. 1.25

75 Pyramidal, 24 to 30 ins. 1.75

Pyramidal, 30 to 36 ins. 2.25

25 Nigra, 36 to 48 ins. 3.00

Buxus sempervirens, 15 to 18 ins. 2.50

Spiraea Vanhouttei, 36 to 48 ins.25

Taxus: 150 Cupidata, 15 to 18 ins. 2.50

200 Media Hicksi, 12 to 15 ins. 1.75

450 Media Hicksi, 15 to 18 ins. 2.25

700 Media Hicksi, 18 to 24 ins. 2.75

275 Media Hicksi, 24 to 30 ins. 3.75

First-class specimen stock with excellent color. Priced to move. Your inspection invited. All sales cash. Write for list of liners available spring 1956.

SUSSEX NURSERY

Bridgeville, Del.

CHINESE ELM LINERS

12 to 24 ins. \$ 1.00 per 100

2 to 3 ft. 4.00 per 100

3 to 4 ft. 6.00 per 100

4 to 5 ft. 10.00 per 100

5 to 6 ft.30 each

6 to 7 ft.60 each

7 to 8 ft.85 each

HEAVY TRANSPLANTS

6 to 7 ft., 1/2 to 3/4-in.75 each

7 to 8 ft., 3/4 to 1-in. 1.00 each

8 to 10 ft., 1 to 1 1/2-in. 1.50 each

10 to 12 ft., 1 1/2 to 2-in. 2.00 each

12 to 14 ft., 2 to 2 1/2-in. 3.00 each

WEITZEL'S NURSERY, North Platte, Neb.

MAGNOLIAS

Soulangiana, heavy 6 ft., B&B, \$7.50;

heavy 5 ft., B&B, \$6.00; heavy 4 ft., B&B, \$5.00;

heavy 3 ft., B&B, \$3.50; 2 to 3 ft., 3-year-old, in beds, \$1.50. B.R.; 18 to 24 ins., 2-year, in beds, \$1

SHRUBS and TREES—Continued

FIELD-GROWN PLANTS	
Bare-root	Per 100
Cornus florida, 2 to 3 ft.	\$ 75.00
Cornus florida, 3 to 4 ft.	100.00
Colorado Spruce, 9 to 12 ins.	20.00
Colorado Spruce, 12 to 16 ins.	25.00
Norway Spruce, 12 to 18 ins.	25.00
Norway Spruce, 18 to 24 ins.	40.00
Pinus Strobus, 12 to 18 ins.	25.00
Pinus Strobus, 18 to 24 ins.	30.00

HOLLY HILL FARM NURSERY

Ellisdale Rd. Allentown, N. J.

Phone AL 9-5216

SURPLUS STOCK

Spreading Junipers, 15 to 18 ins. to 3 to 4 ft.
Upright Junipers, 2 to 2½ to 3 to 3½ ft.
Yews, 12 to 16 ins. to 2 to 2½ ft.
Good selections shrubs, 18 to 24 ins. to 3 to 4 ft.

Shade trees, 6 to 8 ft., 8 to 10 ft.
Send for our fall surplus list.
We have large landscape material in Spreading Junipers.

ALPHA NURSERY, ALPHA, ILL.

FLOWERING CRABS

40 varieties, best of the old and newer varieties. 1-yr. whips and branched. Also 3-yr., once transplanted, 6 to 8 ft. Descriptive booklet available.

THUNDERCLOUD PURPLE-LEAVED PLUM

1-yr., well-branched, sizes to 6 ft. and over.

SIMPSON ORCHARD CO.

U. S. 50 E. Vincennes, Ind.

LIGUSTRUM REGELIANUM

Each, 100 \$0.55 \$0.45

LIGUSTRUM OVALIFOLIUM

2 to 3 ft., heavy, well-branched, .15 .12½

2 to 4 ft., heavy, well-branched, .20 .17½

4 to 5 ft., heavy, well-branched, .30 .25

All prices, loaded on your truck.

RICHARD SCHWOEBEL

Ardmore Ave. and Haverford Rd.

Ardmore, Pa.

NORWAY MAPLES

We specialize in shade trees. Write for our list of Norway Maple, Silver Maple, Wisconsin Weeping Willow, Dwarf Red-leaved Maple, etc. Our B&B evergreens and shrubs are securely hand-sewn; burlap is never tied or pinned. This assures more successful transplanting. Most popular flowering shrubs available too.

WARRINGTON & SON, INC.

Box 146 Greenwood, Del.

CORNUS FLORIDA

3 to 4 ft., 1.00, B.R.; 1.50, B&B; seedlings, 6-in., \$30.00 per 1000; 8-in., \$50.00 per 1000; 24 to 30 ins., \$100.00 per 1000.

CORNUS RUBRA, 4 ft., nice head, \$5.00, B&B.

BAIER LUSTGARTEN NURSERIES

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone Yaphank 4-3444

COTONEASTERS

Horizontalis, 2½-in. pots, \$15.00 per 100; 6-in. cans, \$1.00. Divaricata, 2½-in. pots, \$15.00 per 100; 6-in. cans, \$1.00. Praecox, 2½-in. pots, \$20.00 per 100; 6-in. cans, \$1.50.

BAIER LUSTGARTEN NURSERIES

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone Yaphank 4-3444

JAPANESE RED MAPLE SEEDLINGS

Specializing in Red Maples from seed.

2-yr., 3-yr. and 4-yr. branched transplants.

Best Red Maple seedlings available anywhere.

HUBBS NURSERIES

Rt. 130 Riverton, N. J.

CORNUS FLORIDA

(White-flowering Dogwood)

Fine, well-branched trees

3 to 3½ ft., \$150.00 per 100.

3½ to 4½ ft., \$200.00 per 100.

KLUS' NURSERIES, Pompton Plains, N. J.

SEVERAL THOUSAND SILVER MAPLE

Nursery-grown and well-rooted.

Can prove to you.

Call for appointment to inspect.

BACON'S NURSERY

Phone 77731 Lowell, Ind.

SUPPLIES and SERVICES

CHRISTMAS TREES

CHRISTMAS TREES

5000 SHEARED RED PINE

5 to 8 ft.

CALL FOR APPOINTMENT TO INSPECT

BACON'S NURSERY

Phone 77731 Lowell, Ind.

DECORATIVES

Western cones, ½-in. to 1 ft. long. Price

list. Western Tree Cones, 1925 Brooklane,

Corvallis, Ore.

FERTILIZERS

SOLUBLE FERTILIZERS

PETERS SPECIAL, 20-20-20, general purpose feed.

PETERS SPECIAL, 21-7-7, chelate iron.

Azalea neutral.

PETERS SPECIAL, 21-7-7, chelate iron.

Azalea acid.

\$6.00 per 25-lb. bag, \$20.00 per 100 lbs.

F.O.B. Allentown, Pa.

ROBERT H. PETERS CO.

739 N. 7th St. Allentown, Pa.

FLATS

PRESERVATIVE TREATED FLATS

Made from a good grade of southern Pine, dipped in "Rot Not" wood preserver for longer life.

Standard specifications, inside measurements.

16x12x2 1/2 ... \$20.38 20 x14x3 1/2 ... \$31.07

16x14x3 1/2 ... 27.06 22x15x2 1/2 ... 30.49

20x14x2 1/2 ... 26.61 22x15x3 1/2 ... 35.35

Plant boxes, 16x5x5, \$17.00. Sides and bottoms of masonite. All prices per 100. Other sizes quoted on request. Priced F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of flats, plant boxes and spray boards. Write for our price list on these items. Attach check.

HIGHTOWER BOX & TANK CO.

P. O. Box 1449 Birmingham, Ala.

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all

clear heart. Size 20x15x3 ins. inside measure.

\$38.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bdl.

50 pcs. to bundle, 5 ft., \$4.50 per bdl.

50 pcs. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.

YOHO & HOOKER, Youngstown 2, Ohio

MINNESOTA WHITE CEDAR FLATS.

Order by No.	Wt.	Price
	Per 100	per 100
No. 1, 14x20x2 1/2	320	\$25.00
No. 2, 14x20x3 1/2	400	29.00
No. 3, 12x16x2 1/2	260	19.00
No. 4, 12x16x3 1/2	275	22.50
No. 5, 14x16x2 1/2	275	21.50
No. 6, 14x16x3 1/2	290	25.50
No. 7, 15x22x2 1/2	380	28.50
No. 8, 15x22x3 1/2	425	33.00
No. 9, 11 1/4 x22x2 1/2	320	23.00
No. 10, 11 1/4 x22x3 1/2	400	26.75
No. 11, 14x16x5	450	30.00
No. 12, 5x11x5	160	16.00
No. 13, 5x16x5	215	18.50
Plant boxes, 5x8 1/2 x2 1/2	45	5.00

All other sizes quote on request.

5 per cent discount on orders of 1000 or more.

The above measurements are inside. Bot-

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ends are 1/2-in. thick. Plant boxes are thinner.

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6x5 ins. (cartons 1000 each)	3.60	4.30
8x5 ins. (cartons 1000 each)	3.90	4.85
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8x 1/2 ins. (cartons 250 each)	2.50	3.00
10x 1/2 ins. (cartons 250 each)	2.75	3.25
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Amelopsils Veitchi (Virginia Creeper), 1-

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CLEMATIS, Jackmani and Ernest Markham, 4-in. pot plants, No. 1 stock. Fall or spring shipment. Write for quotations. Any quantity.

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Made from New England White Pine					
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Size		Per 100		Per 100	
		Green	White	Green	White
7 x 7	ins.	\$ 77.50	\$ 85.00	\$ 85.00	\$ 92.50
8 x 8	ins.	72.50	80.00	80.00	87.50
8 1/2 x 6 1/2	ins.	75.00	82.50	82.50	90.00
8 x 8	ins.	80.00	87.50	87.50	95.00
9 x 6	ins.	77.50	85.00	85.00	92.50
9 x 9	ins.	85.00	92.50	95.00	102.50
10 x 6 1/2	ins.	85.00	92.50	95.00	102.50
10 x 9	ins.	92.50	100.00	107.50	115.00
11 x 7	ins.	85.00	92.50	100.00	107.50
12 x 7	ins.	92.50	100.00	107.50	115.00
12 x 9	ins.	110.00	117.50	130.00	137.50
12 x 11	ins.	145.00	152.50	165.00	172.50
14 x 8	ins.	150.00	157.50	170.00	177.50
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BAMBOO CANE STAKES			
Dyed green, pencil thickness.			
Packed 2000 per bale			
		Per 1000	Per bale
		\$ 3.50	\$ 6.00
1 1/2 ft.	.....	4.50	8.00
2 ft.	.....	5.50	10.00
2 1/2 ft.	.....	7.00	13.00
3 ft.	.....	8.50	16.00
3 1/2 ft.	.....	9.50	18.00
4 ft.	.....	12.50	24.00
6 ft.	per bale of 500	\$10.00	

SPLIT BAMBOO, DYED GREEN
Per 1000 Per bale (5000)
12 ins. \$2.50 \$10.00
16 ins. 3.50 15.00
18 ins. 4.50 20.00
24 ins. 5.50 28.00

F.O.B. CHICAGO
Quantity discounts: 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.
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4 ft.	\$2.88	\$3.44	\$4.24
5 ft.	3.60	4.30	5.30
6 ft.	4.32	5.16	6.36
7 ft.	5.04	6.02	7.42
8 ft.	5.76	6.88	8.48

2000 up, less 5%; 5000 up, less 10%.
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These books may be obtained, postpaid, at the publishers' prices indicated, from

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342 South Dearborn Chicago 4, Ill.

HOWARD ROSE BOOKLET

To educate the public in the whys and wherefores of growing and selecting fine roses is the aim of the new Howards of Hemet Rose Growers' Handbook, soon to be available at nurseries.

The Rose Growers' Handbook will provide useful information on the care and culture of roses as well as unusual facts of interest not generally known to the average rose grower. In addition there will be a complete buyers' guide to All-America Rose Selections winners, including color descriptions, growing heights, year of introduction and variety. One of the many subjects covered in the booklet is the extensive program of research and planning undertaken by rose growers in the development of an A. A. R. S. winner.

Editor of the booklet will be Robert Lindquist, vice-president and head of the rose research department at Howards of Hemet. Mr. Lindquist is well-known as the originator of two successive A. A. R. S. winners, Lilibet, floribunda in 1954, and Tiffany, hybrid tea in 1955.

SWEET CHERRY POLLINATION

Failure of sweet cherries to set fruit may be a pollination problem, according to the Cornell University pomologist, Roger Way, at the experiment station at Geneva, N. Y.

No sweet cherry variety will set fruit to its own pollen. Where large blocks of sweet cherries are to be set, a few trees of different varieties should be interplanted with the main variety. Fifteen to 20 trees of one variety distributed through a planting of 150 trees of the main variety should provide enough pollen.

For plantings already set out and for scattered sweet cherry trees in the home orchard, good pollination can be assured by using bouquets of other varieties placed in containers filled with water and set in the tree to be pollinated.

One bouquet per tree is needed. It should consist of at least 10 branches each two and one-half feet long and heavily laden with healthy flowers. Some dry, sunny weather during full bloom is essential for bees to fly and carry out effective pollination. Also, the temperature must be above 60 degrees at least some of the time during full bloom if bees are to do a satisfactory job of pollination.

It is most important that the flowers on the trees to be pollinated and the bouquet flowers be in full bloom on the same day.

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W-W GRINDER CORP.
DEPARTMENT F WICHITA, KANSAS

TEXAS CONVENTION

[Continued from page 8]

The salesman has to get next to his prospect and couple on in order to sell him. Everyone has his own aura of interest. The salesman cannot do business until he knows and understands the other person's situation so well that he can know and tell how his product fits the buyer's needs better than his competitor's products.

A staunch supporter of trade associations, Dr. McFarland said that businessmen not only need to be organized to get somewhere, but they have to get there on purpose. They must first recognize their own problems, then take the realistic approach to meeting and solving them, with the realization that things cannot be changed overnight. The biggest endeavor should be to get large numbers of people to associate sellers' names with something good, then the business or industry can get some place, he said.

Rose Tours

During the afternoon, chartered buses left every half hour from the hotels for the municipal rose garden, where 20,000 bushes in 400 varieties were in full bloom. Other buses and individual cars took conventioners to visit nurseries, rose-processing establishments, the Texas Rose Research Foundation quarters and acre upon acre of rose fields in full bloom. One busload toured some of the beautifully landscape grounds of some Tyler mansions. The weather had been far less hot and dry than usual for July and August in Texas; so plants in field and garden were thriving.

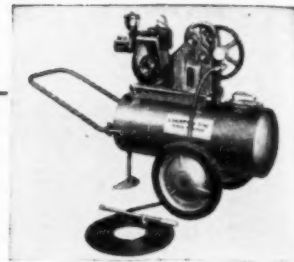
An informal family party in the evening at the American Legion hall included buffet dinner, dancing and southwestern musical entertainment, all given through the courtesy of the Tyler nurserymen.

Pruning for Gardeners

For over 30 years a teacher of horticultural subjects to the amateur gardener and now research consultant for the Corona Clipper Co., Corona, Calif., as well, M. M. Thompson discussed "Pruning." First of all, he said, the public needs to know how to make the correct selection of the proper plant for the proper place in the yard; next, how to plant it, and then how to care for it, which includes pruning. He described pruning as the mechanical removal by design of any part of a plant. It is an art based upon science; its effects are both aesthetic and convenient.

Before pruning, the gardener must

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consider what he wants from a plant—foliage, fruits or flowers. Is that part born of old or new wood? Where is the bud from which it stems? What pruning pattern should be followed? Pruning should be done a little at a time, until the effect of the pruning becomes apparent. Cuts should be made on a 45-degree angle where indicated on buds, and on twigs and branches at the angle of the twig or branch. All sizable cuts should be covered with suitable sealing material.

Mr. Thompson recommended that in selling bare-root fruit trees, the nurseryman not leave on the entire top, no matter how much the customer insisted, for the roots have been altered. Buds 20 inches up the stem should be the maximum left of the tree when it is planted.

Proper pruning tools are essential. There is no single all-purpose pruner. Most amateur gardeners go into a hardware store, ask a horticulturally inexperienced clerk for pruning shears, test their cutting ability on a dowel, then take the one that cuts the dowel most easily; that is hardly the proper test of a good tool for pruning plants. A long-handled lopper is needed for pruning mature wood; shears for woody plants and winter pruning, and clippers for light wood and grooming. Instead of overloading a pruning tool, use a larger pruner or a pruning saw where needed. Last, but not least, clean and take good care of pruning tools.

Gardening is America's No. 1 hobby, said Mr. Thompson. The marked increase in home over apartment dwellers cannot be ignored. In 1930, there were 33 push lawn mowers sold for every automobile; by 1954, one power lawn mower was sold for every five automobiles, and there were twice as many cars sold. People are not afraid to spend money on gardening, Mr. Thompson believes.

The moment a man (or woman) owns a piece of ground, he thinks he knows how to garden, said the speaker. People who have some success with plants will do more gardening. If a customer is successful, there is no need to fear competition. It will repay the nurseryman to give his customer advice on planting and plant care. The biggest problem in his 10 years of retail nursery work, said Mr. Thompson, was trying to talk people out of buying plants unsuitable for their location. Too many want a tree or shrub just because they have seen it in a friend's yard.

Another problem is convincing people to remove instead of trying

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to save plants detrimental to their gardens. And a third problem is that people do not understand the nature of plants, which is in large part due to the use of improper terminology by nurserymen and horticultural teachers. For instance, we speak of feeding a plant, when in reality, a plant makes its own food from the materials provided. He concluded his talk with the showing of color slides on pruning a rose garden.

Landscape Considerations

"The biggest trouble in the landscape field is that there are too many

rules, and people are not enough concerned with design," said the second speaker of the morning. He was Dr. Robert S. Reich, professor of horticulture, Louisiana State University, Baton Rouge. "Look at nature and see what a wonderful job it has done; how often it provides more enjoyment than the man-made landscape. The first need is to know why we are designing, not how."

There should be five fundamental considerations, not rules, in landscaping. The first of these should be the site. Every site is different, even if each is the same-size lot with a

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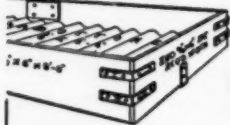


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row of identical houses. Landscaping should not be merely the exterior decoration of a building. The landscape plan should not be made after the building is designed and constructed. The two should be designed together; that is site planning.

The second consideration should be materials. Sometimes a landscape job is done by someone primarily engaged in the landscape construction business, whose specialty is walks and walls, but he does not know a great deal about plants; sometimes, in reverse, it is done by the landscape nurseryman, who knows plants thoroughly, but is little acquainted with construction. As a result, one garden is dominated by walks, fences and accessories, and the other is filled entirely with plants. Both the overuse and misuse of materials, be they plants or accessories, should be avoided. Any material, living or nonliving, which will tolerate outdoor conditions is suitable in the garden, said Dr. Reich, provided the user has the ingenuity. Plants show up better if there are some nonliving contrasts. The use of nonliving materials does not decrease the use of plants; it may even make it possible to use more plants. The customer can probably be sold a certain price job anyway, so he should be sold on quality not quantity.

Space is the third consideration. Too many landscape architects design in only two dimensions, thinking only in terms of the drafting board. They forget to leave space for people. What is left out of the garden is as important as what is included in it.

"Forget about foundation planting," said Dr. Reich as his fourth point. The landscape should be an indoor-outdoor relationship, not the concealing of the base of a house. Houses do not need to float on shrubbery. Plants should be used to relate a building to its surroundings by extending the plantings outward from the building. The trees and shrubs are probably the homeowner's costliest landscape expenditure, so why place them all close against the house where they cannot be seen from inside the house. It is not necessary for the house to be set behind an expanse of front lawn. A house seen through a curtain of trees and shrubs is more interesting than one seen over a bare lawn.

Fifth, remember that all landscaping is done for people; otherwise, there would be no reason for it, said Dr. Reich. Landscaping does something to the environment that affects the people in the house. A good landscape plan cannot be done by



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designing for a picture of a house. The family's needs and desires must be known. The plan must be practical as well as aesthetic.

There is a common misconception that contemporary design means flashy, modernistic design. That is not so. True contemporary design, said Dr. Reich, is made to fit the site, the materials and the people at hand. Just because a house is of colonial architecture does not mean that everything about it must be colonial; undoubtedly the people in it are not. The garden benches, for instance, do not have to be wrought iron. If it had had comfortable foam rubber for cushions 200 years ago, the colonial generation would have sat on foam rubber and not on hard wrought iron benches.

Ladies' Luncheon

Tuesday noon, air-conditioned buses took the ladies to Willow Brook Country Club, where they enjoyed luncheon and a style show. The tables were laid with gold cloths and decorated with yellow roses in gold baskets. Mrs. L. A. Dean, co-chairman with Mrs. C. J. Lauden, for the ladies' entertainment, was mistress of ceremonies. A style show was presented by a local department store, and the models were the 1955 Texas rose queen, Miss Maymerle

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Shirley, Tyler, and wives and daughters of several Tyler rose nurserymen. They included Miss Carol Dean, Miss Sarah Tedder, Mrs. Charles Eikner, Mrs. Charles House and Miss Glenda Breedlove, who also sang. Miss Breedlove will be the rose growers' duchess for the Texas rose festival, October 21 to 24, at Tyler.

Panel Discussions

The showing of a film, "How to Sell Quality," and a panel discussion were the program Tuesday afternoon, at the Blackstone hotel. The movie was obtained from the Florida Nurserymen and Growers Association, which purchased the film for the Florida chapters to show at its meetings. It illustrated how people can be made quality-conscious instead of price-conscious and that cutting prices is not the way to meet competition. Take away quality and how much value does a product or service have? If the customer is shown that extra something about a product or service, he wants it.

Clark Kidd, Arp Nursery Co., Tyler, made the opening remarks of the panel discussion, stating that the aim of every nurseryman should be to create a public trust in this industry. During a rapid newspaper or advertising campaign the public can see more quality, or lack of it, than in 10 years of reading articles in garden magazines. Any market is discouraged by poorly displayed and badly packaged merchandise, he said.

Steve Verhalen, Verhalen Nursery Co., Scottsville, spoke on wholesale production. The retailer is inclined to think that the wholesaler has the easier business—that all he has to do is plant and reap a profit. However, Mr. Verhalen pointed out, the wholesaler has his share of troubles, from weather to uncollected accounts. He has to estimate what the demand will be for a plant several years hence. If he increases production on an item, so, probably, do most other growers; therefore he does not have an exclusive large supply. Too often when he does expand, he does not add adequate equipment; so it costs him more to operate with the old equipment than to purchase and use new equipment.

Asked about the growth comparison between the same plant grown in the field and in a can, Mr. Verhalen replied that the field-grown plant is better as to size, but the canned plant sells better. Four years ago his firm grew some Magnolia grandiflora in the field and some in gallon cans. The first year all the

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canned stock was sold, whereas it took three years to clean out all the field-grown stock. In that time three crops of canned plants had been grown and sold. Answering another query, he advised that canned plants can be severely hurt by cold weather if they are not properly mulched.

If not correctly maintained, the best landscape job will look terrible in a few months, said John Van Valkenburgh, Van Valkenburgh & Vogel, Dallas, speaking for the landscape service type of business. Maintenance does not return so high a profit as do other types of landscape business, and it should not be sold at a cheap price. It can be a year-round business in this part of the country, with no need for any seasonal slumps. Figure how much business can be handled a year, then set prices accordingly, said Mr. Van Valkenburgh. The number of plants sold is small, but the amount of service is large. Make labor pay for itself. Charge for manpower according to the job, and remember that time is worth something, too. Figure that only about 50 per cent of the employees are on the job every day, because of various absentee reasons. Customers are entitled to itemized bills.

Commercial accounts are preferred by Mr. Van Valkenburgh. Business firms are easier to deal with than homeowners, probably because the commercial firm regards maintenance of its premises as necessary overhead, whereas the homeowner regards it in terms of his own wallet or her own pocketbook. Collection is part of the sale. One trouble with nurserymen is that they are too anxious to sell and too afraid to ask a person's ability to pay.

Discussing nursery sales, J. B. Baker, Jr., Baker Bros. Nursery, Fort Worth, said that a firm should have to make no apologies for its place of business, its products or their display. Be proud of the way stock is shown and tag it well as to name and price. The public expects nursery sales personnel to be expert gardeners or horticulturists; so train personnel as well as possible to answer customers' questions. Also train it not to be afraid to say, "I do not know."

Speaking for the garden center type of business, Frank Cornelius, Cornelius Nurseries, related how his firm had formerly operated six stores at Houston and now operates just one. It now does three times as much business, with seven times as much profit. This is not just the result of eliminating some overhead, but of stressing quality instead of price. The amount of replacement is less

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when quality stock is handled. Mr. Cornelius said that when another Houston nursery advertises plants at a much reduced price, his firm sells more of the same plant that same day, at the regular higher price, than is usually done. "We tell the customer that we do not know why the other nursery can sell the plant for so much less, but we convince him why our plant is so much better that we have to sell it at the higher price."

Ninety-nine per cent of new homeowners want to landscape their homes, said Leonard Riggs, who

spoke for the design and construction phase of the landscape business, but 97 per cent of them have some type of mortgage on the home and do not have the cash at hand to pay for much landscaping. It is important to study the prospect, his wants, his needs and what he can afford. Then talk to him about a 2, 3 or even 5-year landscaping program; giving a flat price for the entire job at once will probably scare off a good many customers.

The American Legion hall was converted to a banquet hall for the past presidents' dinner and dance

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ANTI-FROST BAGS are scientifically designed for winter protection of ornamental shrubbery and evergreens. They are made from rugged polyethylene film and equipped with a drawstring so that they can be installed by anyone in a matter of minutes.

ANTI-FROST BAGS provide a ventilated greenhouse for each tree or shrub. They are installed by simply slipping the bag over the top of the tree and fastening it around the trunk with the quick attachment drawstring. **ANTI-FROST BAGS** eliminate the necessity of burlapping or covering the shrubbery in any other manner.

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ANTI-FROST BAGS have the size, price and installation instructions clearly printed on every package to facilitate merchandising. They will double your investment, and there is no shrinkage or loss of any kind. Newspaper mats are available to help you in your advertising.

ANTI-FROST BAGS are now being made in 5 standard sizes. Special sizes are available in 100-lot quantities.

Diameter	Height	Wholesale price	Retail price
12-in.	24 ins.	\$0.345	\$0.69
18-in.	36 ins.	.495	.99
24-in.	36 ins.	.645	1.29
27-in.	48 ins.	.845	1.69
27-in.	60 ins.	.945	1.89

Send cash for your sample kit today containing 10 each of all sizes at the wholesale price of \$32.75 to introduce this item.

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ANTI-FROST
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Tuesday evening. The tables were decorated with gold cloths, silver candelabra and gold candles and gold baskets filled with yellow roses. The invocation was said by Oscar Gray, O. S. Gray Nursery, Arlington. L. A. Dean, Arp Nursery Co., convention chairman, introduced the 1955 Texas rose queen, who presented a bouquet of yellow roses to the wife of President Howard. Clark Kidd made the presentation of the Arp award for service to the Texas nursery industry to Prof. A. F. De Werth, head of the department of floriculture and landscape architecture at Texas Agricultural and Mechanical College, College Station. As the immediate past president, Frank Cornelius presented a plaque of appreciation for service to President Gene Howard. Special awards were made to Steve Dodd, Dallas, for his work as chairman of the "Plant Texas" campaign and to L. A. Dean for his excellent convention planning.

The new officers of the teen-age group, the Junior TANers, were introduced. They are president, Bill Suggs, Houston; vice-president, Ann Verhalen, Scottsville, and secretary, Stephanie Brady, Fort Worth.

Dancing to the music of Shep Fields' orchestra was enjoyed until 1:30 a. m.

A. A. N. President Speaks

The final session, Wednesday morning, featured talks by Dr. Vernon T. Stoutemyer, chairman of the department of floriculture and ornamental horticulture, University of Southern California at Los Angeles, and Vernon Marshall, Arlington, Neb., president of the American Association of Nurserymen. Dr. Stoutemyer's informative talk on "Growing Container Stock" is published in full elsewhere in this issue.

Mr. Marshall prefaced his talk with a brief history of the A. A. N. and a report of the recent convention at Toronto, Ont. The nursery industry, he said, has been less hampered by government restrictions than other industries. Growers have been able to plan their own production. Wholesalers and retailers have been able to set their own prices, but most have been haphazard about pricing. In a study of costs and prices, Mr. Marshall found that his own firm's overhead had increased three to four times, but its prices advanced only one and one-half times. The production of nursery stock is a hazardous business, and the nurseryman can get into serious straits unless his business is geared to ride slack seasons and bad

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TREE AND PLANT LABELS

"Rite in the Rain" labels are not just another paper label. They are made of tough tagboard and chemically treated to make them waterproof. Ordinary pencil markings do not wash off. These are longer lasting yet low cost labels. Millions are used every year by nurserymen.

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 FERTO-GERM, Compost, Manure.....\$ 48.00
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business years. He advised each nurseryman to review his own operations.

The meeting concluded with the election of officers and the selection of San Antonio for the 1957 convention. Houston had already been chosen for the 1956 meeting.

A. A. N. Luncheon

About 100 members and guests met August 24 at the Carlton hotel for a luncheon meeting of A. A. N. region V (Texas, Louisiana, Arkansas, Oklahoma and New Mexico). C. J. Lauden, director for region V, introduced President Vernon Marshall, who described recent accomplishments of the association and current legislation affecting the nursery industry, including wage-hour law changes and support for the National Arboretum. He also told about the fair trade practice rules for the nursery industry under consideration by the federal trade commission and recent fraud trials of misleading advertisers.

The only business was the suggestion by J. B. Baker, Jr., that Mr. Lauden be nominated at the next national convention for re-election as director for region V, and the region V members unanimously agreed.

President of Texas chapter 25, James Fitzpatrick, presided at a brief meeting to elect delegates and alternates to the 1956 convention. Gene Howard, R. C. Aldridge and Mr. Fitzpatrick were elected for 2-year terms, and Frank Cornelius and Jack Jones have another year to serve. The five alternates chosen were Homer Eikner, L. C. House, Ralph Pinkus, George Fisher and Harold Wood.

NEW JERSEY ASSEMBLY

[Concluded from page 10]

opaca) be in the first 10 named. It was felt by the panel that it takes too long for the American holly to become a shade tree specimen.

Mr. Siebenthaler, Siebenthaler Nurseries, Dayton, O., was asked to say a word, and he told the group that it was a fine step forward to set up a preferred list of trees.

Other trees mentioned both by the panel members and from the floor included the white ash, green ash, silver linden, phellodendron, cladrastis, Aesculus carnea brioti, Nyssa sylvatica, dogwood, Crataegus mollis and zelkova. All are fine trees, but the fact remained that the panel had to come up with only 10 each in the major and minor tree lists.

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TREE WOUND DRESSING

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RETAIL PRICE—LESS THAN CASE LOTS

1/2-pt. can (48 per carton).....	\$0.60
1-pt. can (48 per carton).....	.90
1-qt. can (24 per carton).....	1.60
1-gal. can (6 per carton).....	3.50

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Here's a fast-moving specialty which sells to state highway depts., city and country parks, tree experts, cemeteries and fruit growers. Every tree owner is a prospect. Ask for catalog No. 35 for a full line of "Tree Trimming Equipment."

Rack Displays—6 1/2 pts., 5 pts. and 4 qts.

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The axe handle, which is especially made for this saw, is properly tapered to fit the head and is 36 ins. long.

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SOUTH ALABAMA FIELD DAY

More than 50 nurserymen attended a field day sponsored by the South Alabama Nurserymen's Association August 19 at the Alabama Polytechnic Institute's ornamental horticulture field station at Spring Hill. The nurserymen learned of the tests being conducted as they were shown through the station by Dr. Raymond L. Self, plant pathologist in charge.

After touring the station with Dr. Self, the nurserymen assembled on the lawn to hear Virgil Searcy, assistant agronomist at the A. P. I. agricultural experiment station, discuss briefly the weed-control studies. Lucy Hyche, assistant entomologist at the agricultural experiment station, discussed the use of systemics.

Later in the afternoon the group heard Henry P. Orr, associate horticulturist at the station, discuss potting mixtures and fertilization. Mr. Orr told the group that a good potting mixture for nursery or greenhouse use should be fibrous, organic and well drained, but retentive of moisture. In general, the potting mixture should be low in fertility for seedlings, rooted cuttings or poorly rooted transplants. The phosphate application should be made prior to use of the mixture. The soil reaction, or pH, should have been adjusted to the level desired previous to the use of the mixture.

Building Soil

Mr. Orr stressed that the most successful grower is the one who has established a standardized, sterilized soil mixture for his use year after year. Often this grower cultures his basic soil. An area of several acres is set aside in the nursery acreage. Winter and summer cover crops recommended for the area are grown on this acreage, properly fertilized for the best growth of these crops. After two or three years the top soil, rich in organic matter, can be removed and composted with manure or sawdust in piles for later soil mixture use. Soil tests should be relied upon as a guide to fertilization of the cover crops, to determine the needed adjustments of soil reaction and to aid in establishing nutrient element levels for desired growth of the container plants.

Dean E. V. Smith, director of the agricultural experiment station, told the group of the relationship of the ornamental horticulture field station work to their individual needs. He urged that the nurserymen work closely with Dr. Self. He stressed the need for high quality, disease-

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Top market prices and heavier production per bench are guaranteed every owner of a SUDBURY SOIL TEST KIT. Prevents starving plants, or stunting them with toxic soil. Can be used on soil already in benches, even on growing crops. Turn poor benches into top production, and keep them there.

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Easy as reading a thermometer—takes only 10 minutes, costs 10¢ a test. No waiting—tells instantly what to do. Order Today!

Let It Pay for Itself

SEND NO MONEY—pay postman only \$4.95 plus postage, then 4 monthly payments of \$6.75 each.

Or send \$29.95 and we'll prepay, saving you \$1.25 to \$2.35 in postal charges.

BETTER CROPS GUARANTEED—your money refunded anytime within a year unless fully satisfied.

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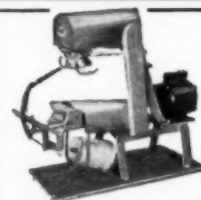
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free nursery stock. He complimented the South Alabama Nurserymen's Association for the progressiveness of their organization and spirit of cooperation.

Lloyd Abbot, president of the South Alabama Nurserymen's Association, thanked the nurserymen and the speakers for their interest and participation. He emphasized the advantages of such a field day for the nurserymen and pledged the support of his association to sponsor another in the future.

Henry P. Orr

SHADE TREE CONFERENCE

[Continued from page 17]

zero. In some sections the growing season for vegetation is 55 days or less, while in other parts of the Pacific coast plants grow the year round. Such variations, he said, result in the production of vastly different types of vegetation; in the dry desert areas are found such plants as cacti, sagebrush and other shrubs that tolerate drought conditions, and in the sections where rainfall is abundant are found the forests composed of many tree species.

The Arboriculture Industry

L. C. Chadwick, of the department of horticulture of Ohio State University, Columbus, O., presented an interesting and inspirational paper on the subject "A Look at the Arboriculture Industry." Arboriculture, as an industry, has developed in four distinct periods, Dr. Chadwick said. Period No. 1, he said, began with the Garden of Eden and ended about 1620 A.D. This period was characterized by little knowledge of trees and plants, but real love and respect for them; plants were held in high regard, particularly by the Egyptians and Romans, he said, as is shown by ancient records.

Period No. 2, from 1620 to about 1820, might be called the trial-and-error period of development, Dr. Chadwick remarked, for it was during that time that many methods of treating ailing trees were first advocated. Some of the practices recommended during the period are still followed in principle, he said, and cited such examples as the injection of fertilizer materials, the punch-bar method of introducing fertilizer into the soil, pruning to balance top growth with the root system and the selection of trees for planting according to merit of species.

Pseudoscientific Period

Period No. 3, 1820 to 1920, Dr. Chadwick termed the pseudoscienti-

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fic period. That period was characterized by the publication of many papers that deal with the control or cure of various tree troubles, rather than the prevention of ailments. Recommendations made in many of these publications were based on observations of single trees under treatment; often, influences entirely unrelated to methods or materials used in treatment caused growth responses mistakenly ascribed to the treatment. This fact resulted in some erroneous conclusions' being reached and improper recommendations, as shown by later studies, Dr. Chadwick said.

Research Expanding

In Period No. 4, which has continued since 1920, the scientific approach to the solution of tree problems has developed and emphasis has been increasingly placed on prevention, rather than cure, of tree troubles, Dr. Chadwick said. During this latter period, plant research at all levels has been expanding constantly, he continued. Scientific publications dealing with plant problems are increasing; various organizations have been formed that stress the importance of following approved scientific practices in treating trees and other plants, and increasingly more men with formal training in arboriculture and horticulture are entering these fields to gain their livelihood. This period has seen arboriculture grow until, at the present time it is rated as a \$100,000,000 per year industry. There have been vast improvements in equipment, insecticides, fungicides and other materials used in arboricultural work, he asserted.

High Standards Needed

One of the less encouraging aspects of arboriculture at present, Dr. Chadwick said, pertains to the attitude of employees. "The human element may have descended in recent years, but that is true also in other professions," he said. Skill in performance of the various phases of arboricultural work and real interest in acquiring knowledge of trees appear to receive less consideration from workmen today than was true a generation ago, he said. Adding that many tree service companies are not operating at the high level of standards the owner would desire, Dr. Chadwick said that this undoubtedly is due, in part at least, to the fact that skilled labor is not available. The need for speed in operations has been met, he said, often at the expense of careful work. "Poor-quality work should not be condoned," Dr. Chadwick warned. "High standards in tree work should

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be set and maintained. Let us think of the trees; let us love them and respect them, as did the Egyptians and Romans. Then there will be less temptation for anyone to do poor work."

In commenting on the future of arboriculture as an industry, Dr. Chadwick expressed confidence in its continued growth and expansion. He said that he thought even now there is developing a new field of opportunity in arboriculture—that of the professional consultant. "In the future, certainly there will be room for trained men who will operate only in that capacity," he asserted. More and better education in matters pertaining to tree care is needed for the advancement of arboriculture, he declared. "Through education we must make the homeowner more tree-conscious," he said, "and we must have better-trained personnel in the industry from worker, to foreman, to owners. Arboriculture is an important industry; it is a fine profession. All can take pride in it."

After Dr. Chadwick's talk, a series of color slides on shade and streetside trees of California and the Pacific northwest was presented by Prof. Woodbridge Metcalf, extension forester of the University of California, Berkeley, and Brian O.



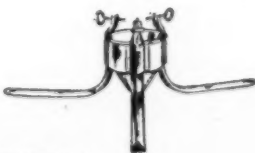
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Mulligan, director of the University of Washington Arboretum, Seattle, Wash.

Pruning

"Training Young Trees" was the subject of an interesting and instructive paper presented by Dr. W. H. Chandler, professor of agriculture emeritus, University of California at Los Angeles. In his opening remarks, Dr. Chandler said that young fruit trees are trained by pruning and that any operator who engages in such work should know exactly what he is doing before he attempts to prune trees. He explained that pruning tends to stimulate growth in remaining branches; so he advised pruning before the leaves start to develop in the spring, to obtain the full invigorating effect. If pruning is done later in the season, he said, little growth develops until the following spring. He advised against severe pruning of young trees until they have developed full crowns. "Pruning young trees too soon," he said, "makes for tall, weak trunks. The lower branches should grow for awhile to develop strength."

After his presentation of color slides showing pruning methods, Dr. Chandler answered a number of questions asked from the floor. They brought out the following points:

- (1) Most young fruit trees can be pruned in the summer to obtain a dwarfing effect, without injury to the tree. The top should not be sheared; rather, branches should be cut back to a lateral. When bearing trees are involved, such pruning should be done after the fruit has matured.
- (2) The lower branches of a newly planted fruit tree should be allowed to remain for several years to develop strength in the trunk and to protect the trunk against sunscald.
- (3) When a tree has been trenched in preparation for transplanting, it generally is advisable to thin out the crown to balance the top and roots. Some species, however, do not require such pruning.
- (4) Summer pruning of fruit trees should be avoided in areas where the winters are cold, for it reduces the tree's ability to resist the adverse effects of cold weather.

Standards and Ethics

In discussing "Standards and Ethics in Arboriculture," Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, O., said the word "standards" when used in this connection might be defined as "—a solution to a recurring difficulty," and "ethics" as "—operating according to the basic

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principles of right action." It is difficult, he said, to set up rigid standards of operation for tree care work because of the wide variation in types of tree growth in different sections of the country. "But," he said, "it should be possible to set up basic standards and guiding principles, leaving actual methods of operation up to the operator."

Stating that he believed standards could be developed along such lines for practically all phases of arboriculture, Dr. Tilford outlined the following operating standards which might be applied to pruning: (1) Purpose of pruning (shaping, to open vista, to thin the top, to balance root and crown, etc.) should be the basis by which the method of removal is determined. (2) Certain trees should be pruned according to the season. (Maples, for example, should not be pruned early in the spring.) (3) The time of pruning should, in some cases, be influenced by the susceptibility of the trees involved to certain diseases that are transmissible at specific times of the year. (4) Branches should be removed with a flush cut. (5) Dehorning should not be an approved practice. (6) All cuts should be treated with suitable wound dressings except when certain diseases can be spread

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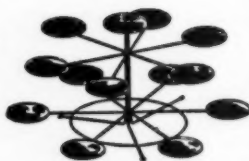
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tree, or, if the tree is suspected of
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work on a healthy tree. (8) Branches
should be removed with the undercut
method. (9) Ropes should be used,
rather than climbing spurs, in all
pruning work in which climbing is
involved. (10) Safety practices
should be put into effect and en-
forced in pruning work. (11) Arbor-
ists should carry full insurance
coverage.

The development and acceptance
of such basic standards, not only in
pruning but in all other phases of
arboriculture, would tend to assure
higher quality of work generally and
would lead to more complete under-
standing between arborist and client
in all cases, Dr. Tilford asserted.
Such benefits, he added, would be
increased if complete arboricultural
standards of operation were devel-
oped in a form that would be ac-
cepted and published by the Ameri-
can Standards' Association.

Ethics in Arboriculture

The subject of ethics in arboricul-
ture, Dr. Tilford remarked, has not
been overlooked by the National
Shade Tree Conference. Citing a
number of papers on this subject,
presented at former meetings, Dr.
Tilford pointed out that the Pro-
ceedings of the 17th National Shade
Tree Conference contain a report
covering committee action on the de-
velopment of a code of ethics. At
the time the committee met it was
the opinion of its members that
formulation of a code of ethics
should be referred to the National
Arborist Association for considera-
tion.

Dr. Tilford emphasized that in
business and industry it is extremely
difficult to enforce ethical practices
except when acts go beyond legal
limitations. The matter of ethics, he
said, is largely a personal matter.
"An ethical arborist," he concluded,
"will do unto others as he would
have others do unto him."

Municipal Problems

Carl Fenner, city forester of Lan-
sing, Mich., and current president
of the National Shade Tree Confer-
ence, discussed "Municipal Arbori-
cultural Problems, Old and New."
Using color slides to illustrate his re-
marks, Mr. Fenner described modern
city forestry operations, including
approved systems of keeping records,
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trimming of street trees for both au-
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ment of gas-injured trees, wound treatment, blossom and fruit control and other activities in which a city forestry department might be involved.

A panel discussion on "A New Approach to Community Planning—Consider the Trees" was led by Walter L. Doty, director, editorial research, Sunset magazine, Menlo Park. Stating that "this fast-moving world of ours has broken all speed records in the last five years," Mr. Doty said that the speed of modern living, the constantly increasing population and the expansion of industries of all types have "forced a new importance upon planning—regional planning, county planning, city planning and also community planning."

The history of home, neighborhood and sectional values, he continued, has served to emphasize the value of trees. Planning should be coordinated, he stressed, "with the most important factor in the landscape—trees." Trees should be considered, Mr. Doty asserted, in relation to their influence upon climate, upon the total landscape and upon the total environment in which people live. They should be considered also, he declared in relation to their value as shelterbelts, as buffers around factory areas, as sound deadeners and as green belts around population centers.

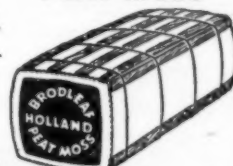
Other panel members, all of

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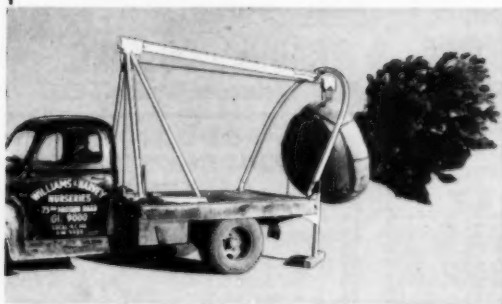
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whom spoke in similar vein, stressing the importance of trees and shrubs to the welfare of the home and the community, were Ralph D. Cornell, landscape architect and community planner, Los Angeles; P. M. McCann, superintendent of distribution, Southern California Edison Co., Los Angeles; Robert Royston, landscape architect, San Francisco, and Noel B. Wysong, chief forester, forest preserve district of Cook county, River Forest, Ill.

Public Utility Arborists

At the meeting of public utility arborists, held Tuesday evening, short papers were given as follows: "Use of the Chain Saw on the Tree," by Bertram P. Puckett, of California Tree Service, Inc., Hollywood; "Brush Disposal — Brush Chippers," by Robert A. Hubbard, of Cal-State Tree Service, Glendale; "Aerial Platforms and Air-powered Tools," by John C. Phillips, of Sohner Tree Service, Inc., San Anselmo; "How Standards Affect Line Clearing Safety," by Keith L. Davey, of Davey Tree Surgery Co., San Francisco, and "Selection and Use of Trees to Minimize Public Area Conflicts," by Edward H. Scanlon, editor of Trees Magazine, Olmsted Falls, O.

C. E. Lee, of Southern California Edison Co., acted as discussion leader, and John C. Kenealy, tree warden of Lower Marion township, Ardmore, Pa., presented a summary of the points discussed at the close of the session.

Using slides to illustrate his comments, Mr. Puckett presented a step-by-step description of the proper method of using chain saws in branch removal. Points he stressed were the following: (1) The tree must be suitable for chain saw operations; it must have many large branches scheduled for removal for efficient use of power saws. (2) The operator must be fully experienced in the use of the chain saw. (3) The saw must be in good condition and must be warmed up on the ground before being taken into the tree. (4) Branches must be undercut, in the way that is the practice in handsaw work, before removal; when danger is involved the top cut should be finished with a handsaw. (5) Limbs and large stubs must be lowered to the ground with ropes to minimize danger.

Mr. Hubbard told of the problems involved in brush disposal in the Los Angeles area and said that most of these had been solved through the use of brush chippers. Mr. Hubbard's remarks were reported in full

in the September 1 issue of this magazine.

Use of Overhead Equipment

Using a color film to illustrate his comments, Mr. Phillips described operations involving the use of aerial ladders and air-powered pruning equipment in overhead line clearance work. The use of such equipment, he asserted, reduces the cost of operations, as compared to handwork, by about one third. Power tools of any type, used to facilitate pruning of tall trees, should be considered only as a supplement to human climbers; power tools never can replace crews with the ability to climb, the speaker warned. To use aerial ladders and similar expensive equipment efficiently in pruning work, the operations must be carefully planned well in advance, and accurate records must be kept of work accomplishments, he said.

Mr. Davey said the increasing need to perform work rapidly has tended to produce substandard work in many cases, a deplorable situation. "Work should conform to the highest standards of arboriculture," Mr. Davey asserted, adding that it is becoming more and more necessary to sell the public, the utility companies and the working crews on the value of quality work. Concurring with Mr. Phillips' statement that power tools cannot replace human climbing crews, Mr. Davey said crews must be trained to climb and to take pride in doing a good job; otherwise, with power tools available, the men may be inclined to magnify the importance of speed at the expense of quality work.

In conclusion Mr. Davey said, "We must protect our tree heritage, while still lowering the costs of work. This can be done through the use of power tools, but they must be used properly."

City Trees

Using color slides to illustrate his points, Mr. Scanlon described a number of shade and ornamental tree species suitable for use along city streets and in the home grounds of the average city dweller. These included the little leaf linden, hop hornbeam, hawthorns, several varieties of maple, globe elm and others of small to medium size at maturity or which could be maintained within bounds in limited space areas at low cost.

The speaker deplored the use of large-growing species along narrow streets, saying that this practice inevitably leads to higher costs in pruning and other forms of maintenance than most cities can adequately



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ly meet. He suggested that arborists and others interested in the propagation and maintenance of trees cooperate in the selection of species adapted to the site in which they are to be planted.

A panel discussion meeting, at which problems of municipal arboriculture and forestry were considered, was held Wednesday evening. Lynn M. F. Harriss, assistant superintendent of parks, Oakland, served as discussion leader. Panel members included John W. Neill, assistant professor and associate director of the Botanical Garden, University of British Columbia, Vancouver, B. C.; Frank E. Karpick, of the bureau of forestry, Buffalo, N. Y.; Fred W. Roewekamp, superintendent of park development, Los Angeles, and Robert L. Woerner, director of the Finch Arboretum, Spokane, Wash.

Street Tree Problems

A formal paper was presented by Professor Neill on the subject, "The Street Tree Problem for Pacific Northwest Cities." Professor Neill used a series of slides showing drastically pruned street and lawn trees and explained that, in each case, such treatment would not have been necessary had species better adapted to the site conditions been used in the original plantings.

A major problem of planting in the Pacific northwest area, he said, is the selection of trees suitable for the region and which fit into the over-all plan of planting and landscape beauty. Before any planting is done, he emphasized, the tree species under consideration should be appraised in terms of their characteristics, and selection should be made according to the trees' suitability for the planting site.

Factors the speaker suggested as being worthy of consideration in selecting tree species included the following: (1) Hardiness with respect to climate. (2) Adaptability to soil, water, temperature, light, atmosphere and other relevant conditions prevailing at the planting site. (3) Normal growth of the tree with respect to size above ground, root spread, longevity and rate of growth. (4) Mass and texture of foliage. (5) Flowering and fruiting habits. (6) Susceptibility to pests. (7) Environment in which the tree must grow, particularly with respect to available space for crown and root development.

It would be desirable and a great aid to the persons charged with the responsibility for planting city areas if listings of trees that would be suitable for planting in the various sections of the country could be devel-

oped. In the preparation of such listings, Professor Neill said, the trees should be classified as fully as possible according to all their characteristics of growth habits, tolerances and preferences of artificial and natural conditions and susceptibility to diseases and insects. Coordination of known site conditions with tree characteristics, Professor Neill said, undoubtedly would result in better plantings' being made in cities throughout the United States.

ENGLISH VISITOR

Edward Stewart, D. Stewart & Son, Ltd., Ferndown, England, was a visitor to the United States during the month of August. Included in his tour of nurseries were stops at Jackson & Perkins Co., Newark, N. Y. and the D. Hill Nursery Co., Dundee, Ill. His firm, with 90 acres, mostly in ornamental nursery stock, sells at retail. Mr. Stewart related he was much interested in the garden centers developing in the United States, with a view toward promoting such a project in England.

The Stewart name will be remembered by New Englanders, as Miss Betty Stewart attended the association's convention in 1947 and also visited nurseries in the east and middle west at that time.

H. P. ALLEN is planning to start a nursery on his farm located near Lumberton, N. C.

SALE of the Holstein Nursery, 4613 East Tulare street, Fresno, Calif., to Mr. and Mrs. M. S. (Hap) Haggard has been made by Mr. and Mrs. Wright Holstein. The nursery, started in 1934 by A. J. Straub, will now be operated as the "Hap" Haggard Nursery. Mr. Haggard will continue his duties as news editor of radio station KARM, while his wife, Gladys, will be in charge of nursery operations.

K. K. ACRES, 5610 West Rossin avenue, Milwaukee, Wis., is expanding its operations in the nursery business. Since the city limits of Milwaukee have been extended within three miles of the nursery's location and suburban building has increased, the nursery will offer evergreens for retail sale this fall, the plantings having been started in 1951. Raymond H. Kaczor, proprietor, states that he will have to supplement this stock with wholesale purchases of seedlings, transplants and mature plants, as only a fraction of the 10 acres is devoted to evergreens, although this is gradually being increased.



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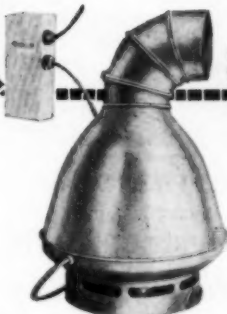
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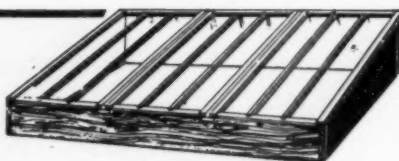
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ABSTRACTS OF RECENT RESEARCH

ROSA CANINA SEEDS

The annual report of the John Innes Horticultural Institute in Great Britain for the years 1953-54 contains the work of G. D. Rowley on germination of *Rosa canina* seeds. *Rosa canina* is much used there as an understock, but the rate of after-ripening of the seeds is so slow that they do not ordinarily germinate until the second spring.

As a result of considerable work, it is reported that seeds harvested as soon as ripe, cleaned, stratified in tall pots of vermiculite, placed in a warm greenhouse for two months, then refrigerated for two months at minus 2 to 0 degrees C., will germinate the first spring provided that the seeds never become dry. C.

PINE-SHOOT MOTH

The "Biology and Control of the European Pine-Shoot Moth," by William E. Miller and Ralph B. Neiswander, is a comprehensive 30-page report on an important pest. It was published as research bulletin No. 760 by the Ohio agricultural experiment station and gives the results of laboratory and field studies made during a 4-year period.

A prime pest of red pine in northern Ohio, larvae of the European pine-shoot moth deform the trees by cutting off the needles and excavating buds and shoots. Although red pine is injured most severely, Swiss mountain and Scotch pine are attacked, also.

The winter is passed in the larval stage. After the larva feeds on new buds in April, pupation takes place in the larval tunnel in late May, and the moth emerges during the latter part of June to deposit flat overlapping eggs on the needles. The eggs hatch in about 9 days, producing larvae that construct silken tents, in which they feed on the needles. After a growth period the larva constructs another tent over a bud into which it bores, causing resin to form. The fresh resin causes the tent to glisten in the sunlight.

Miller and Neiswander state that wherever this insect is present at all it is destined to occur in large numbers if not controlled by artificial means. Sprays applied with ground equipment were more effective than dusts. Sprays and dusts applied by

airplane were inadequate. One application of DDT at rates of 1 or 2 pounds of toxicant to 100 gallons of water gives excellent control if applied in mid-April or in late June or early July when eggs are hatching. Red pine plantations are not damaged much after they are 7 to 9 years old. I.

QUASSIA EXTRACT

Quassia extract and parathion applied to the soil of potted plants were active against several species of insects in preliminary experiments reported in the *Journal of Economic Entomology*, Volume 48, No. 2. Picrasmin is the active ingredient of the dark brown and bitter quassia extract used by Roger F. Anderson, of Duke University forestry school.

Insects affected by the quassia extract were larvae of the Mexican bean beetle on beans, the redheaded sawfly on pitch pine, eastern tent caterpillar on chokecherry and the poplar tentmaker on large-toothed aspen. Three species of aphids—the cowpea aphid, a woolly aphid feeding on the needles of pitch pine and the cabbage aphid—were affected, while the potato aphid, the green peach aphid, the 2-spotted mite and the imported cabbage worm were not affected by the quassia extract soil treatments.

Parathion applied to the soil was active against the Mexican bean beetle and eastern tent caterpillar, but had no effect on the 2-spotted mite.

Tests with several other chemicals for the internal medication of plants were negative. I.

BLACK MOLD ON EVERGREEN STOCK

Chalaropsis thielavioides, the fungus which causes black mold on rose grafts, has been identified as the cause of graft failure in several evergreen plants, according to a report by Charles E. Hess and D. S. Welch, of the New York agricultural experiment station at Ithaca. Their report, which dealt with specimens from a nursery in New Jersey, appeared in the *Plant Disease Report*, Vol. 38, No. 6.

Both grafted plants and cuttings were affected. In all cases callus formation had been prevented and the cut surfaces were covered with the characteristic black, crumbly masses of spores.

The symptoms and signs of *Chalaropsis thielavioides* on evergreen are similar to those described for black mold on rose grafts. There is little

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343 S. Dearborn St.

Chicago 4, Ill.

or no formation of callus. In the early stages of the disease there is an inconspicuous formation of whitish, mildew-like growth on the cut surfaces of the union. This white growth gradually darkens and becomes more conspicuous with the formation of the spores that give the characteristic black mold appearance.

A loss of 100 per cent was reported for grafts in cuttings of *Cryptomeria japonica*. Severe losses occurred in grafts of *Ilex opaca*, *Thuja orientalis* and *Thuja occidentalis*. A moderate loss was sustained in *Juniperus virginiana* grafts, although losses the previous year were severe in this species.

Observations made on the spread of the disease in a greenhouse where grafting was done indicated that the *cryptomeria* understock was the source of the inoculum. D.

APPLE GRAFT REPORT

R. B. Tuckey, R. L. Klackle and J. A. McClintock report on the performance of Delicious, Gallia Beauty, Golden Delicious and Turley apples grafted on East Malling rootstocks Nos. I, XIII, XVI and XII. The experience covered a period of 12 years beginning in 1941. (Proc. Am. Soc. for Hort. Sci. 64:146-150). Growth habits, survival and yield were recorded and compared with similar varieties on standard rootstocks.

Trees which died prior to 1950 were mostly lost because of improper anchorage. This was most frequent with EM I.

Trees were injured in the unseasonable freezes which occurred November, 1950, and January, 1951, and were injured again in December, 1951. Injury was greatest with EM I and EM XII.

East Malling I produced trees which, although larger than EM XIII, were lower and more spreading. Similarly, trees on EM XII were larger than EM I, but about the same height as on EM XVI.

Fruit production was highest on EM I, followed in order by EM XVI, EM XII and EM XIII. The average production on all East Malling trees, per tree, was smaller than was customarily experienced with standard trees of the same variety. However, because of the larger number of trees per acre, the average production per acre of all varieties on East Malling stocks was from two to three times as great as is generally experienced in commercial orchards on standard rootstocks in the area around Lafayette, Ind., where the tests were run. C.